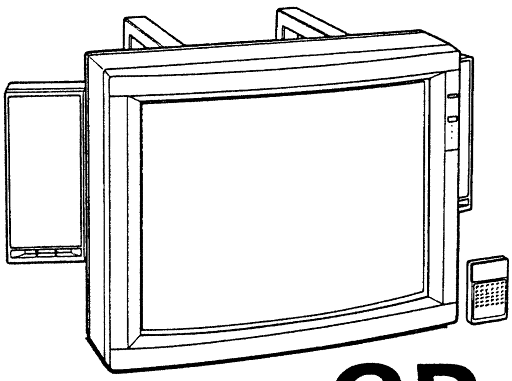
KV-3400/KV-2900

SERVICE MANUAL

GE Model

Chassis No. SCC-C41A-A



GP-2A CHASSIS

Note: The service manual for RM-679 MT have been issued separately.

MODELS OF THE SAME SERIES	
KV-2900T	

SPECIFICATIONS

Television standards B/G, H, I, M, D/K
Color system PAL, SECAM, $NTSC_{4.43}$, $NTSC_{3.58}$
Channel coverage See "Receivable channel by channel system" on page 2.
Picture tube 29-inch (approx. 72.4 cm) Trinitron tube (approx. 68 cm picture measured diagonally)
110-degree deflection
Antenna 75-ohm external antenna terminal
Inputs VIDEO-1, 2 (phono jacks)
Video: 1 Vp-p, 75 ohms, unbalanced, sync negative
Audio: 0.5 Vrms (standard level, 47 kilohms)
S-TERMINAL (4-pin mini DIN)
Y: 1 Vp-p, 75 ohms, unbalanced, sync negative
C: 0.286 Vp-p, 75 ohms
VIDEO 3 (21-pin connector)
CENELEC standard
Outputs MAIN MONITOR OUT (phono jacks)
Video: 1 Vp-p, 75 ohms unbalanced, sync negative
Audio: 0.5 Vrms (standard level, 47 kilohms)
EXT SPEAKER (Speaker terminals)
Accepts 8-ohm speakers

Speaker 15 W + 15 W, Impedance 8 ohms
Power requirements 110–240 V AC, 50/60 Hz
Power consumption 180 W
Dimensions Approx. 673 × 542 × 525 mm (w/h/d)
($26\frac{1}{2} \times 21\frac{3}{8} \times 20\frac{3}{4}$ inches)
Weight Approx. 52 kg (114 lb 10oz)
Accessories supplied RM-679MT Remote Commander with 2 R6 batteries (1)
Speakers with speaker cords (1 pair)
Power cord plug adaptor (1)

Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOR TV

SONY®

Receivable Channel by Channel System

MIDDLE EAST/ASIA (B/G, H*)

Receivable Channel	Channel Display
E-2 to E-12 E-21 to E-69	C02 to C12 C21 to C69
Indonesia	
2 to 11	C03 to C12
Morocco	
M-4 to M-7 M-8 to M-10	C70 to C73 C08 to C10
New zealand	
2 3 4 to 9	C03 C04 C05 to C10

CATV WEST EUROPE (B/G, H)

Receivable Channel	Channel Display
S-01 to S-03 S-1 to S-20	C42 to C44 C01 to C20

AUSTRALIA (B/G, H)

Receivable Channel	Channel Display
AS-0 to AS-11 AS-5A AS-28 to AS-69	C00 to C11 C12 C28 to C69

HK/UK (I)

Receivable Channel	Channel Display
Hong Kong, United Kingdom	
B-21 to B-68	C21 to C68
Ireland	
B, C,..., J	C02, 03,..., C09
South Africa	
4 to 13 21 to 68	C04 to C13 C21 to C68

E. EUROPE/CHINA (D/K)

Receivable Channel	Channel Display
East European countries	
R-1 to R-12 R-21 to R-60	C01 to C12 C21 to C60
China	
C-1 C-2 C-3 C-4 C-5 C-6 7 to 12 28 to 34 39 to 63	C01 C02 C13 C03 C04 C14 C06 to C11 C28 to C34 C39 to C63

AMERICA (M)

Receivable Channel	Channel Display
2 to 69	C02 to C69
Japan	
J-5 to J-11 J-13 to J-62	C07 to C13 C14 to C63

CATV AMERICA (M)

Receivable Channel	Channel Display
2 to 13 A-1 A-2 A-3 A-4 A-5 A-6 A-7 A-8 A, B,..., W	C02 to C13 C99 C98 C97 C96 C95 C06 C05 C01 C14, C15,...C36
Japan	
J-1 to J-3 J-5 to J-11 J-12	C95 to C97 C07 to C13 C23

*TV system

TABLE OF CONTENTS

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND ⚠MARK ON THE SCHEMATIC DIAGRAMS ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THE SERVICE MANUAL.

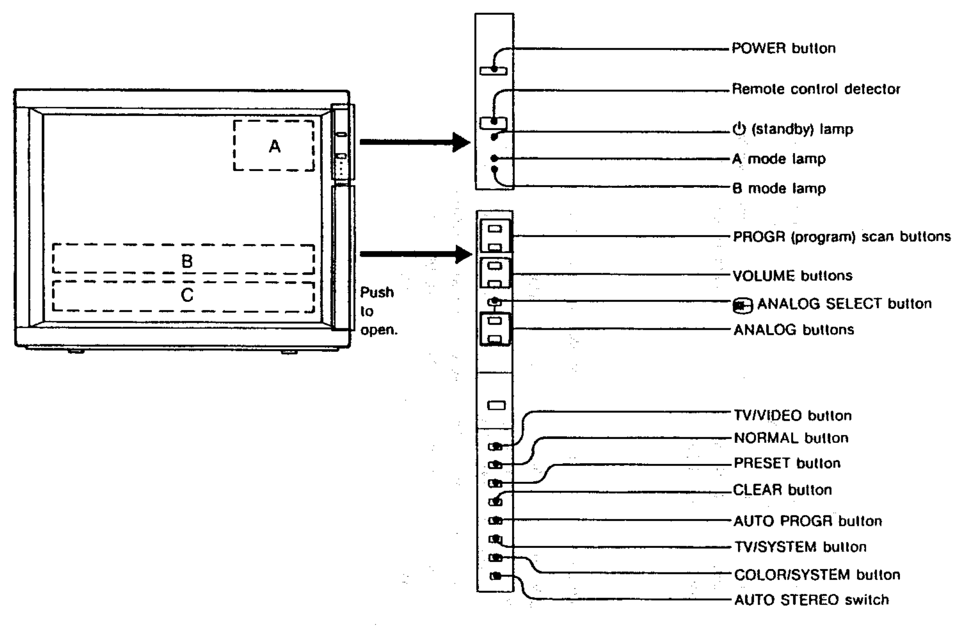
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

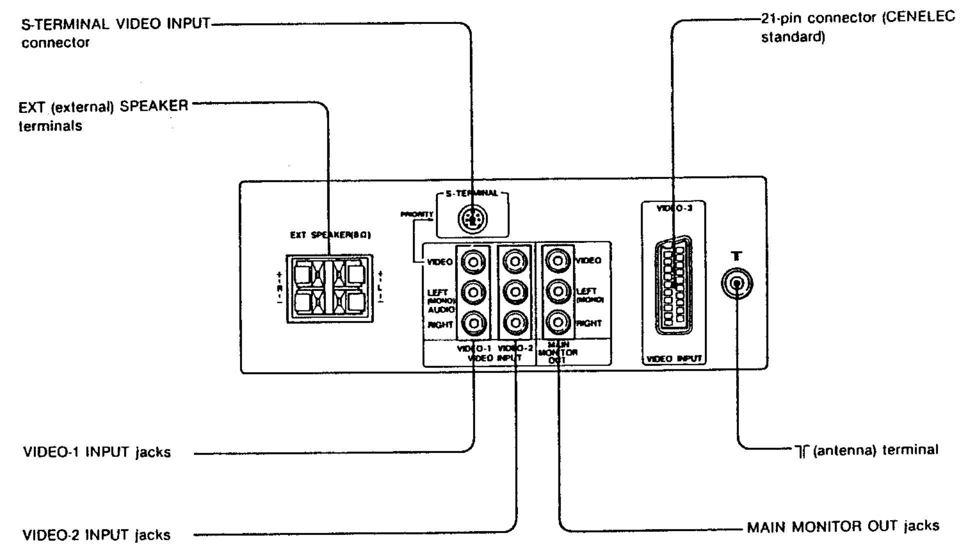
SECTION 1
GENERAL

1-1. LOCATION OF CONTOROLS

Front



Rear



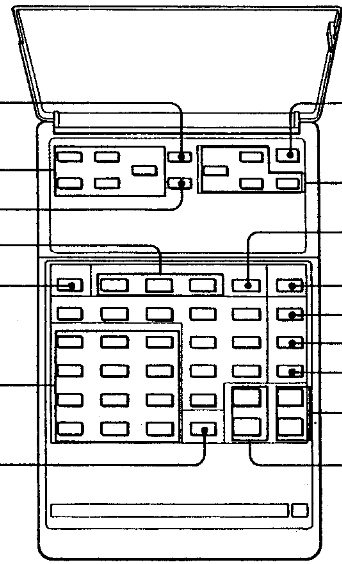
On-screen displays

A
- Program position and station name or channel number
- Video input mode

B
- Channel system
- TV system and color system

C
- Item and bar display for volume, picture and sound adjustments
- Surround/space sound, loudness and muting modes

Remote Commander RM-679MT



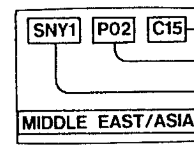
1-2. PRESETTING CHANNELS

Both automatic and manual presetting are available.

Before Presetting

- Turn on the TV.
- If the "VIDEO 1", "VIDEO 2" or "VIDEO 3" indication is displayed on the screen, press the TV button so that a program or channel number is displayed.

On-screen display during presetting



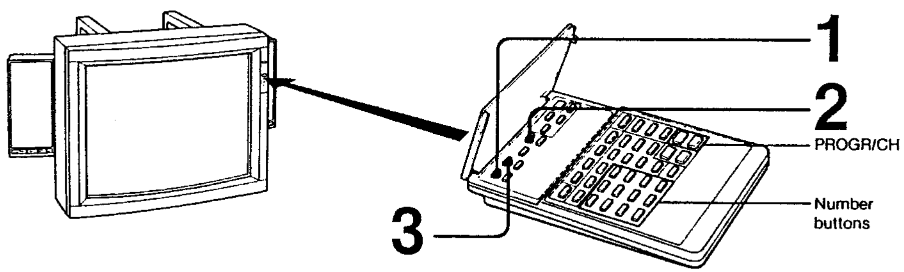
Each time TV SYS is pressed in the channel presetting mode, the channel system changes as follows:
MIDDLE EAST/ASIA → CATV W.EUROPE → AUSTRALIA → HK/UK → E.EUROPE/CHINA → AMERICA → CATV AMERICA → (back to MIDDLE EAST/ASIA)

The TV system and color system are automatically set according to the channel system.

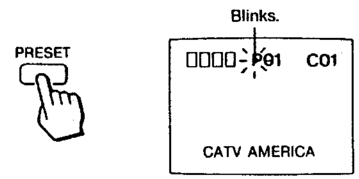
Channel system	TV system	Color system
MIDDLE EAST/ASIA	B/G,H; West European TV standard	AUTO
CATV W.EUROPE	B/G,H; West European TV standard	AUTO
AUSTRALIA	B/G,H; Australian TV standard	AUTO
HK/UK	I; British TV standard	AUTO
E. EUROPE/CHINA	D/K; East European TV standard	AUTO
AMERICA	M; American TV standard	AUTO
CATV AMERICA	M; American TV standard	AUTO

Automatic Presetting

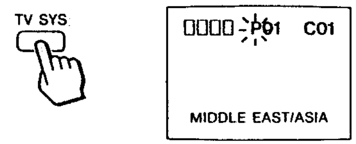
Up to 30 receivable channels from the lowest channel are automatically preset in the consecutive program positions.



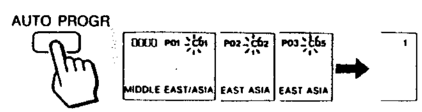
1 **Press PRESET.**



2 **Select the appropriate channel system referring to the "Channel system by country" on page 21.**

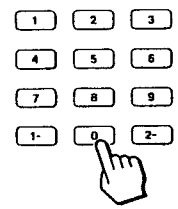


3 **Press AUTO PROGR.**

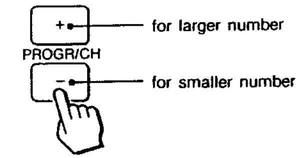


All receivable channels are preset in numerical sequence beginning from program position 1. When no more channels can be found, the presetting mode is released and the program position 1 will be displayed on the screen.

If you want to begin presetting channels from the desired program position, select the program position with the number buttons or PROGR/CH +/– and then press AUTO PROGR.



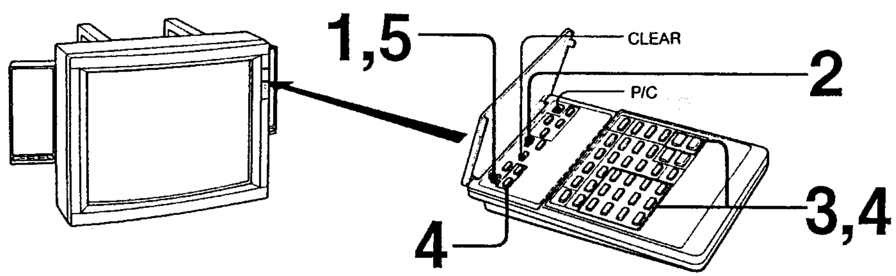
e.g. To select program position 2, press "2".
To select program position 12, press "1–" and then "2".
To select program position 22, press "2–" and then "2".



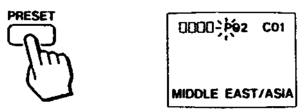
All receivable channels are preset in numerical sequence beginning from the selected program position.

Manual Presetting

To preset a receivable channel in a desired program position, use manual presetting.



1 **Press PRESET.**

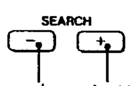


2 **Press TV SYS to select the appropriate channel system.**

3 **Select the desired program position with the number buttons or PROGR/CH +/– buttons.**

4 **Tune in the desired channel.** There are two ways:

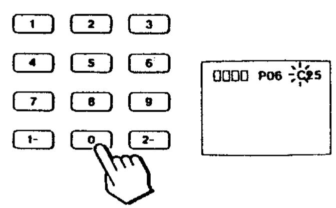
Press SEARCH +/– repeatedly until the desired channel appears.



Each time SEARCH +/– is pressed, the adjacent channel is automatically tuned in.

Press P/C to make the "C" indication blink. Then select the desired channel directly. (Refer to the "Receivable channel by channel system" on page 24.)

To select channel 5, press "0" and then "5".
To select channel 25, press "2" and then "5".



To scan the channel, press PROGR/CH + (for higher channel) or – (for lower channel).

Repeat steps 2 to 4 for other desired channels.

5 **Press PRESET.**

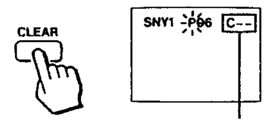
Skipping Program Positions

For skipping of undesired program positions when PROGR/CH +/– is pressed, proceed as follows.

1 Press PRESET.

2 Select the program position to be skipped with PROGR/CH +/– or the number buttons.

3 Press CLEAR.



Indicates that program 6 has been skipped.

4 Press PRESET.

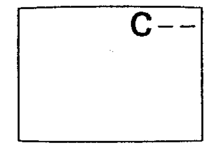
Repeat 1 to 4 for other positions to be skipped.

To restore a skipped program position, preset the desired channel in that position following "Manual presetting" on page 12.

Skipping Channels

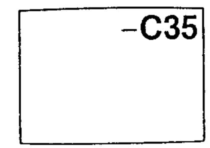
For skipping of undesired channels when PROGR/CH +/– is pressed, proceed as follows.

1 Press P/C so that the "C--" indication appears on the screen.



2 Select the channel number to be skipped with the number buttons or PROGR/CH +/–.

3 Press CLEAR.



A "–" appears, indicating that the channel has been skipped from channel scan memory.

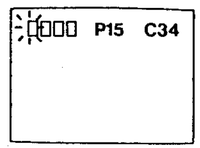
Repeat steps 1 to 3 for other channels to be skipped.

To restore the skipped channel, make that channel appear on the screen and press PRESET.
A "+" appears on the left of the channel number, indicating that the channel has been added.

To Give a Program Position a Station Name

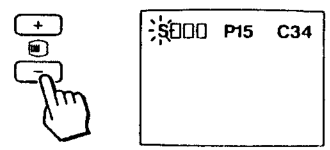
You can give a station name to each program position to identify the received channel for display on the screen together with the program position number, using up to four characters.
Example: To name program position 15 as "SNY1"

1. Press PRESET.
2. Select the program position to be named with the number buttons or PROGR/CH +/–.
3. Press ⊟.



A desired character can be set to the blinking column.
Each time ⊟ is pressed, the next column blinks.
The fifth press makes the "P" indication blink and the unit returns to channel presetting mode.

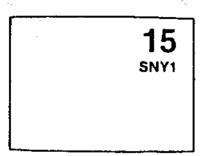
4. Select a desired character.



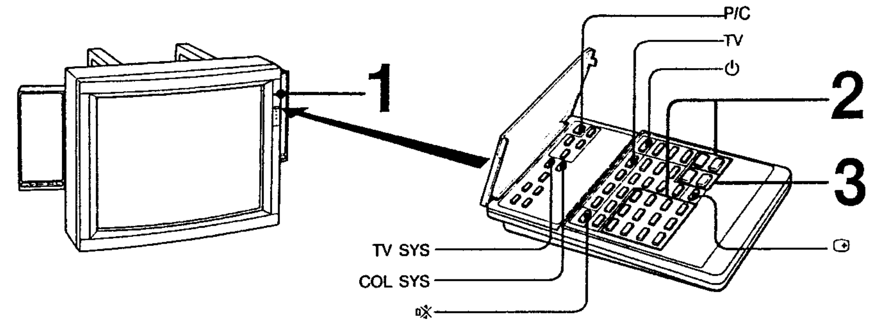
Each time ⊟ + is pressed, the character changes in the following sequence.
0 → 1 → 2 → ...9 → A → B → ... → Z → ■(blank) → 0

Each time – is pressed, the character changes in the reverse sequence.

5. Repeat steps 3 and 4 to set the desired station name.
6. Press PRESET.

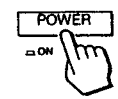


1-3. WATCHING TV PROGRAMS



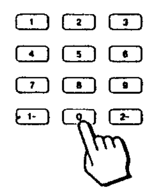
Operation

1. Turn on the TV.

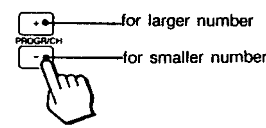


If the "VIDEO 1", "VIDEO 2" or "VIDEO 3" indication is displayed on the screen, press the TV button.

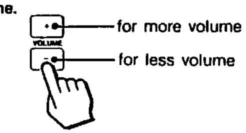
2. Select the desired program position with the number buttons or PROGR/CH +/–. (Program tuning mode)



e.g. To select program 6, press 6.
To select program 16, press "1–" and then "6".
To select program 26, press "2–" and then "6".

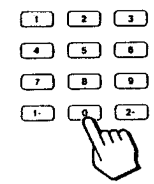


3. Adjust the volume.

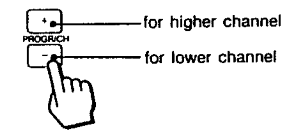


Note on the TV system and color system (only for program tuning mode)
If there is no sound or the sound is distorted, set TV SYS to the TV system which produces clear sound.
If a color program does not appear in color, set COL SYS to the color system which produces normal color.

To select directly the desired channel which is not preset (Channel tuning mode)
Select the appropriate channel system with the TV SYS button and then select the channel. (Refer to the "Channel allocation" on page ⓬.)

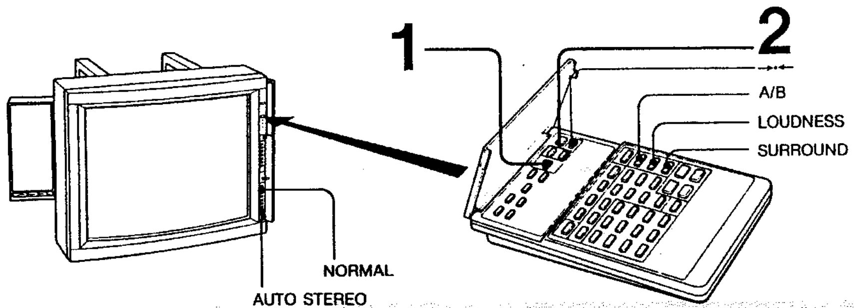


e.g. To select channel 5, press "0" and then "5".
To select channel 25, press "2" and then "5".



To change the tuning mode
Press P/C. The "C--" (Channel tuning mode) or "P--" (Program tuning mode) indication will appear on the screen. Then select the desired channel or program position number as mentioned above. If the numbers are not entered for 10 seconds, the mode will change.

To turn off the TV for a short period of time	Press ⏻. The unit enters the standby mode. The ⏻ lamp lights.
To turn on the TV from the standby mode	Press TV or the desired number button(s).
To cut off the power completely	Press POWER on the unit.
To mute the sound	Press 🔇. The 🔇 indication appears on the screen. Press again or press VOLUME + to restore the sound.
To keep the on-screen indications displayed on the screen.	Press ⊕. Press again to make them disappear.



Picture and Sound Adjustments

The following items can be adjusted by observing the segmented bar display on the screen.

1 Press ⊟ repeatedly until the item you desire to adjust appears on the screen.

2 Press ⊟ +/– to adjust the level of the selected item.

Each time ⊟ is pressed, the item changes in the following order.

Item	– button	+ button
◑ (picture)	for less picture contrast	for more picture contrast
(color)	for less color intensity	for more color intensity.
☼ (brightness)	for less brightness	for more brightness
(hue)	Skin tones become purplish.	Skin tones become greenish.
(sharpness)	for less sharpness	for more sharpness
(bass)	to decrease bass response	to increase bass response
(treble)	to decrease treble response	to increase treble response
(balance)	to emphasize the left speaker's volume	to emphasize the right speaker's volume

To reset the adjustment levels to the factory-set levels
Press →•← or NORMAL on the TV.

To emphasize high and low tones
Press LOUDNESS. The indication is displayed on the screen. Press again to restore the normal sound. The indication changes to .

Enjoying Surround and Space Sound Effects

To activate surround effect
Press SURROUND until the indication appears on the screen. You can obtain sound reproduction with the atmosphere of a movie theater or concert hall.

To activate space sound effects
Press SURROUND until the indication appears on the screen. You can obtain sound reproduction with special acoustic effects.

To restore the normal sound
Press SURROUND until the indication appears on the screen.

Receiving a West German Stereo Program

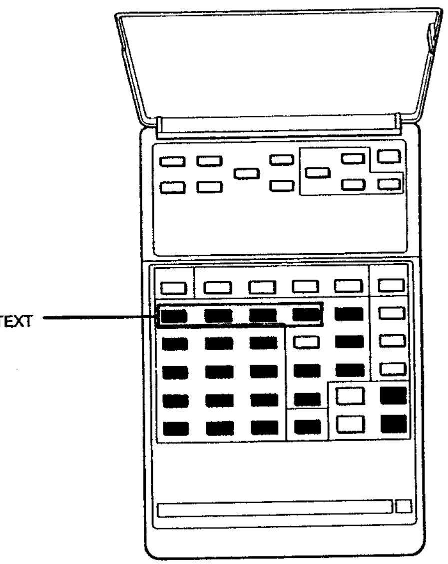
Normally set the AUTO STEREO switch on the TV to ON to receive a stereo broadcast. The A and B mode lamps light. If noise makes it hard to receive a very weak TV stereo program, set the switch to OFF so that the lamps go out. The sound becomes monaural but noise will be reduced.

Listening to a West German Bilingual Program

Either A or B mode lamp lights during a bilingual broadcast. Press A/B to select the desired sound of the bilingual program. Each time this button is pressed, A or B is selected alternately.
(In video input mode, A lamp lights for a left channel, B lamp for a right channel or A and B lamps for both channels.)

1-4. VIEWING TELETEXT

To view the teletext service, use the Remote Commander.
The buttons for teletext operation are indicated in green.



Operation

1 Select the TV channel for the desired teletext service. When the signal is weak, teletext errors may often occur.

2 Press ⊟/⊟ (TEXT/MIX) to display the teletext service.
Once ⊟/⊟ has been pressed, the TV channel cannot be changed.

3 Key in the three digits of the desired page using the number buttons. If an error is made, complete the three-digit sequence by keying in any digit. Then re-enter the correct page number. The requested teletext page is displayed.

To return to the TV mode, press TV on the Remote Commander.
The teletext service can be displayed directly from the standby mode by pressing ⊟/⊟.

To receive the teletext service of a different TV channel

1 Press TV to return to the TV mode.

2 Select the desired TV channel.

3 Press ⊟/⊟.

To display the index page
Press (INDEX). If the necessary signal is not being broadcast, page 100 is displayed.

To access the next or preceding page
Press (PAGE+) or (PAGE−).

To superimpose the teletext display on the picture
Press / twice from TV mode.
Press / again to return to the TEXT display.

To suppress the teletext display so that the TV picture is displayed
Press (TEXT CL). This button can be operated from both the TEXT and MIX displays.

To prevent a teletext page (subpage) from being updated/changed
Press (HOLD). The HOLD symbol appears at the top of the screen.

To resume normal teletext reception, press / .

To enlarge the teletext display
Press once to enlarge the upper half of the display; press again to enlarge the lower half of the display. And press again to return to the normal display.

To reveal concealed information such as answers to a quiz
Press (REVEAL).
Press again to conceal the answers.

To adjust the contrast of the teletext display
When in teletext mode, adjust by using the + or − buttons adjacent to the button.

To watch the TV programme while waiting for a requested page to be displayed

1. Request the new page.
2. Press to watch the TV programme. The requested page number and other data appears at the top of the screen while the page number is being searched for. When the requested page has been captured, the page number remains on the screen and the other data disappears.

P101 (TV picture)

To view this page, press / .

To have a requested page displayed at a pre-determined time.

1. Request a time coded page (e.g. alarm page).
2. Press (TP ON).

"T****" will appear at the bottom of the screen.

T****

3. Enter your request time with the number buttons, using four digits. For example, 0730.

T0730

To watch the TV programme until the requested time, press . At the requested time, the page number will be displayed at the bottom of the screen.
To view this page, press / .
To cancel the request, first ensure that the teletext page is displayed, then press (TP OFF).

FASTEXT Operation

FASTEXT Teletext enables you to access pages quickly and conveniently with one key operation.

When a FASTEXT page is broadcast a colour coded menu will appear at the bottom of the screen. Each coloured prompt relates to the coloured keys on the Remote Commander. Pressing one of these will select the page described by the prompt.
Selection may also be made by entering the three digit page number in the normal way.

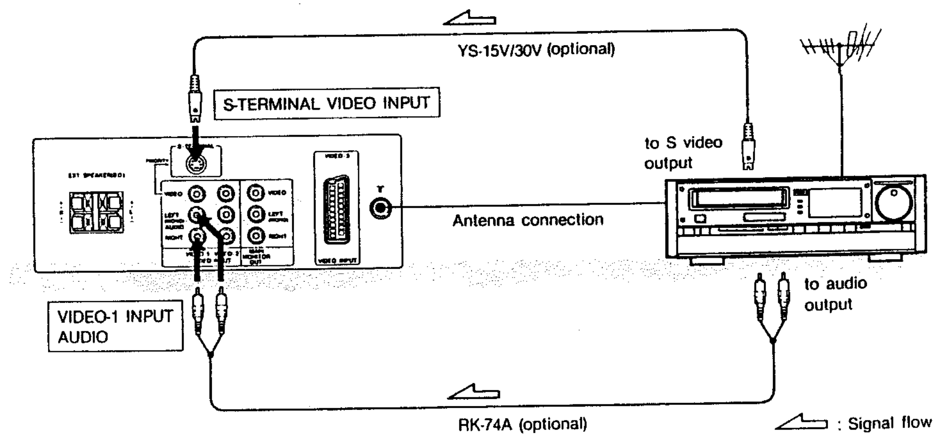
Correct FASTEXT operation relies on the necesary signals being transmitted by the Broadcasting Authorities. It is possible that some Broadcasters will not support this transmission.

If FASTEXT is not transmitted, the decoder will operate as outlined above.

1-5. CONNECTING OTHER EQUIPMENT

Connecting a VTR

Connecting a VTR equipped with the S video output connector



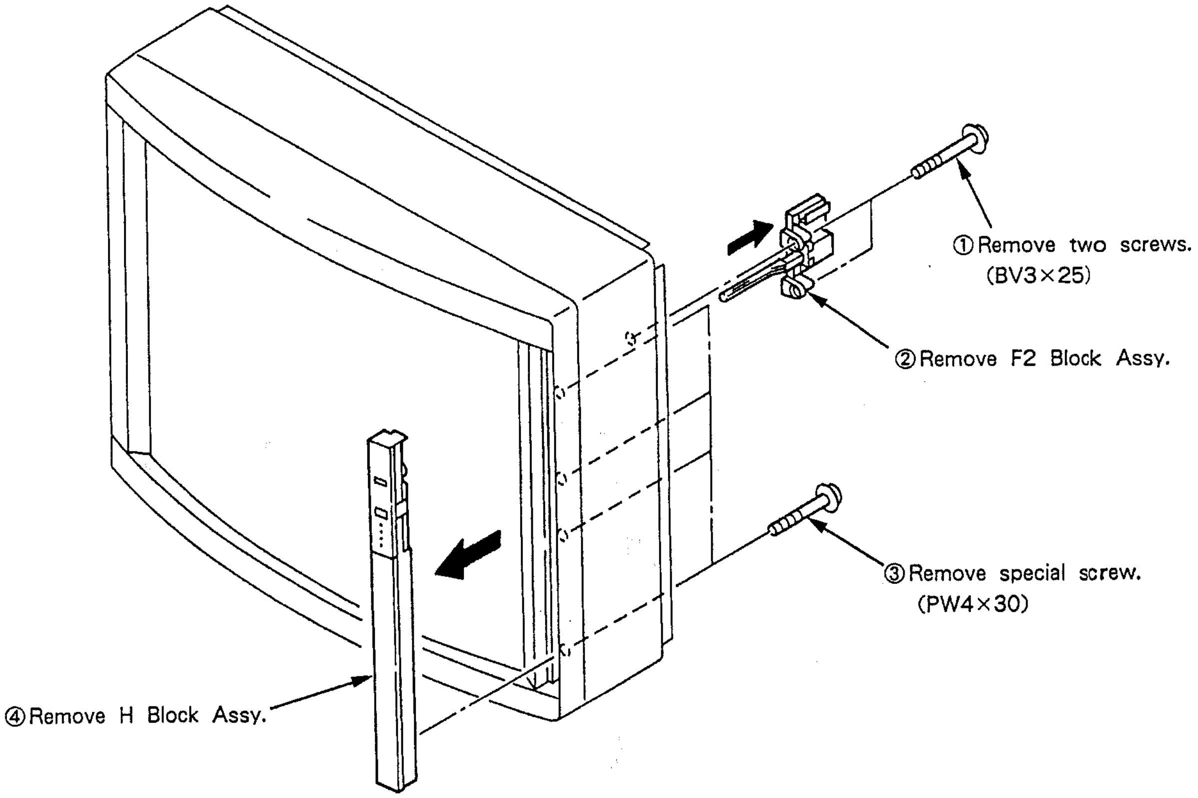
Notes on S-TERMINAL VIDEO INPUT

- When the S-TERMINAL VIDEO INPUT is connected, the picture from the video input jack of VIDEO-1 INPUT is not displayed.
- To view the picture from S-TERMINAL VIDEO INPUT, press VIDEO 1.

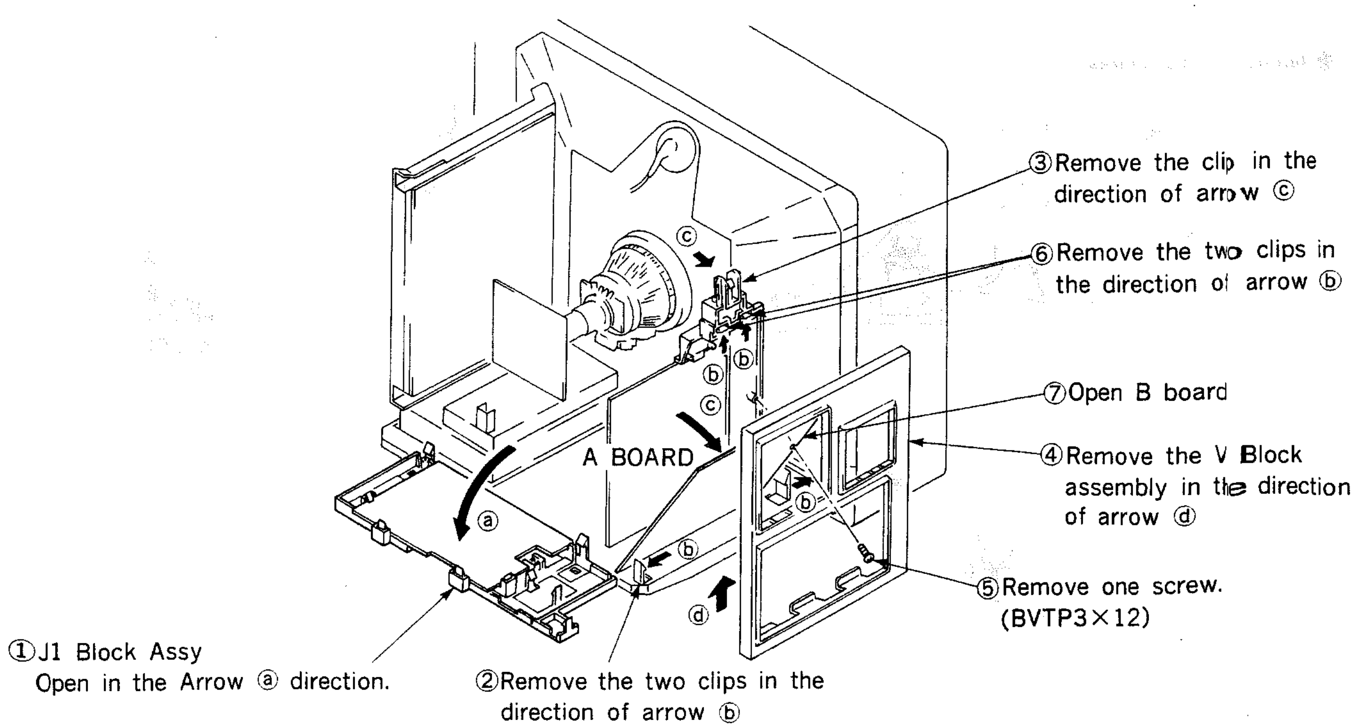
About S-TERMINAL VIDEO INPUT
Video input and output signals may be separated into Y (luminance or brightness) and C (chroma or color) signals. Usually these two signals are combined in a VTR and sent as one signal to a TV. Separation of the Y and C signals prevents them from interferring with one another, thereby improving picture (especially in color) quality.
This unit is equipped with an S-TERMINAL VIDEO INPUT through which these separated signals can be input directly.

SECTION 2
DISASSEMBLY

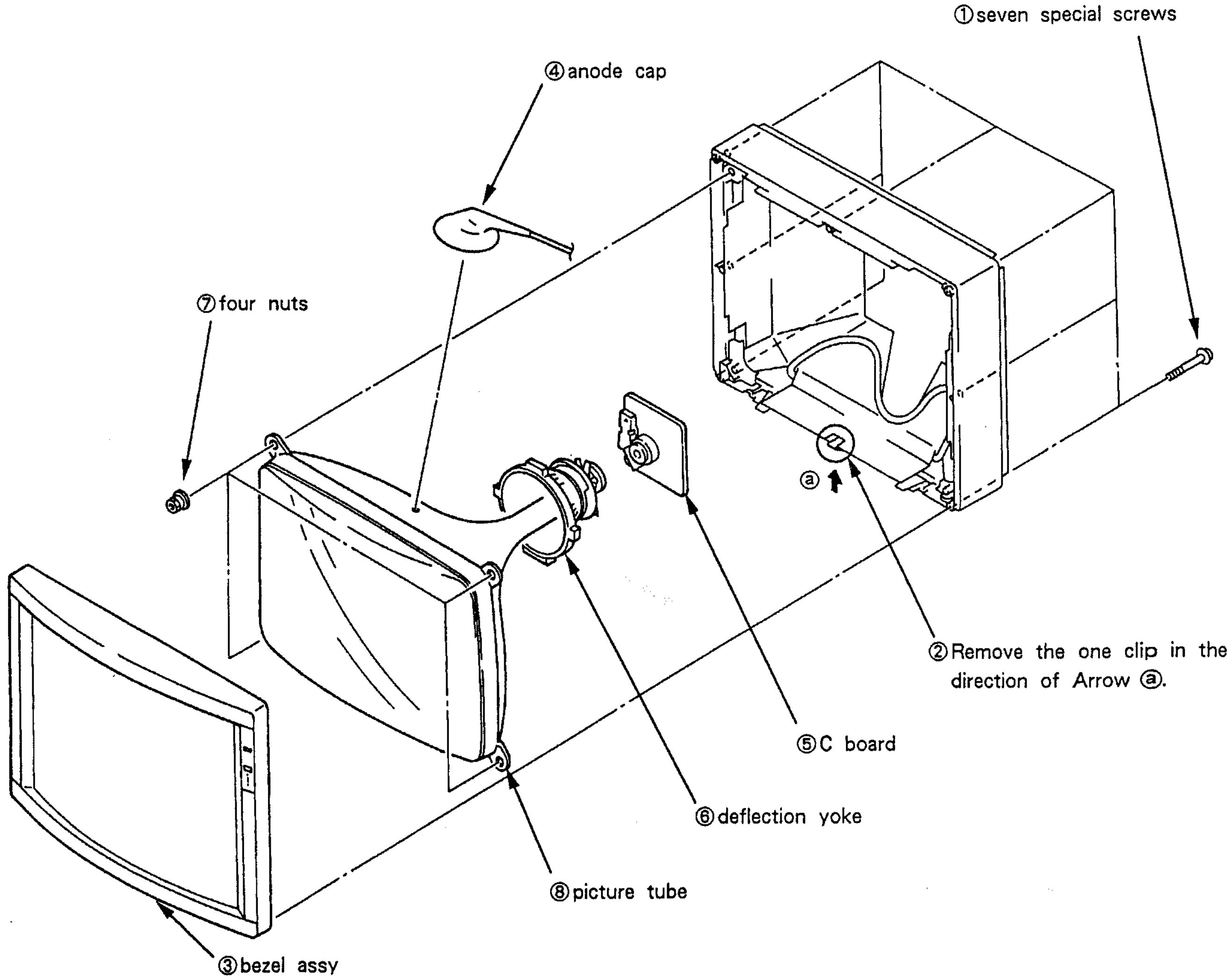
2–1. H BLOCK ASSY REMOVAL



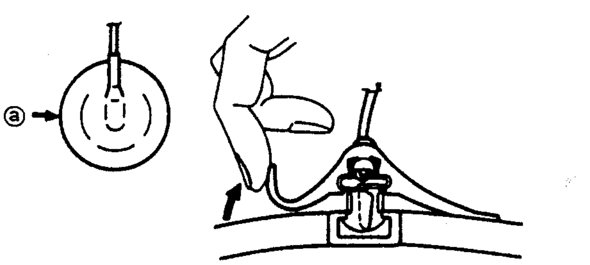
2–2. A BOARD REMOVAL



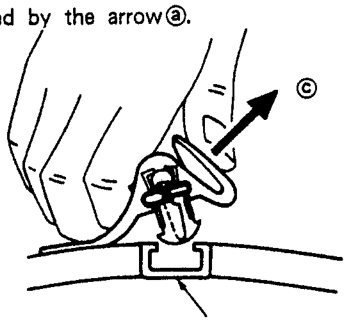
2−3. PICTURE TUBE REMOVAL

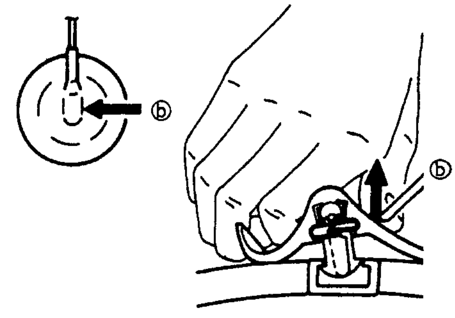


● **Removing Procedures**



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.





② Using a thumb,pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

③ When one side of the rubber cap is separated from the anode button,the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted :

◑CONTRAST control ·········· 80% (or Normal by Commander)
☼BRIGHTNESS control ·········· 50%

Perform the adjustments in order as follows :
1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.
1. Color Bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

Preparation
- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3−1. BEAM LANDING

1. Input a raster signal with the pattern generator.
   CONTRAST } normal
   BRIGHTNESS }
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly. (Fig. 3 - 1 — 3 - 3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig. 3−1)
5. Switch over the raster signal to blue and green and confirm the condition.
6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
7. When landing at the corners is not right, adjust by using the magnet. (Fig. 3 - 4)

Fig. 3−1

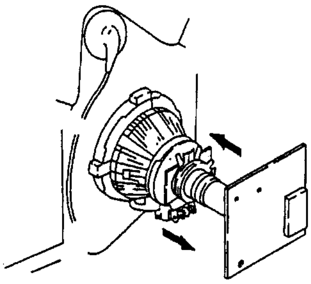


Fig. 3−2

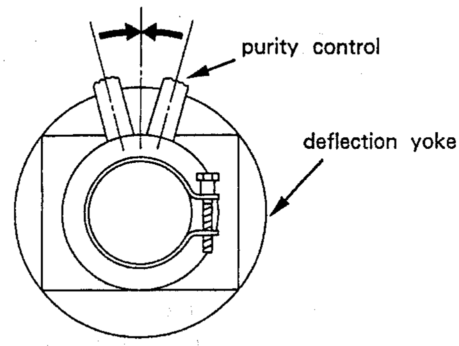


Fig. 3−3

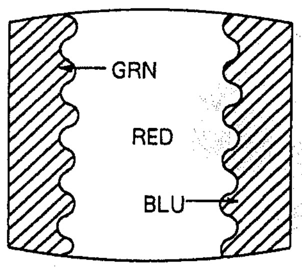
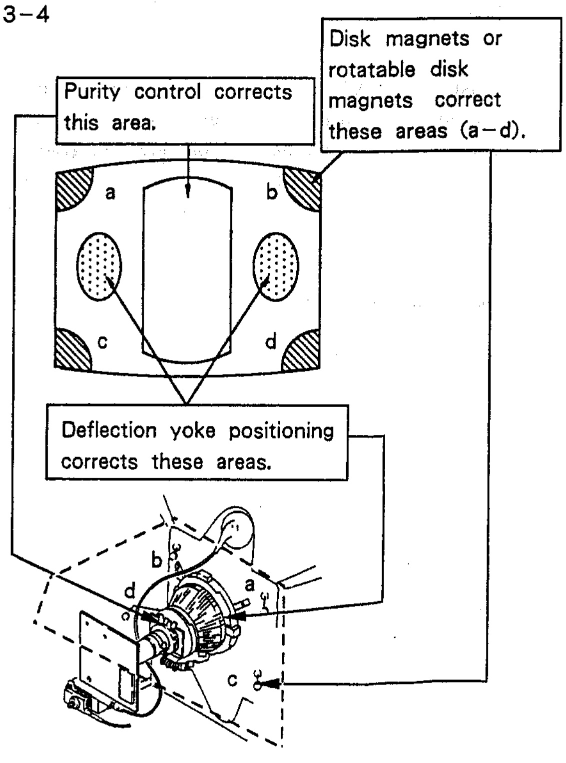


Fig. 3−4

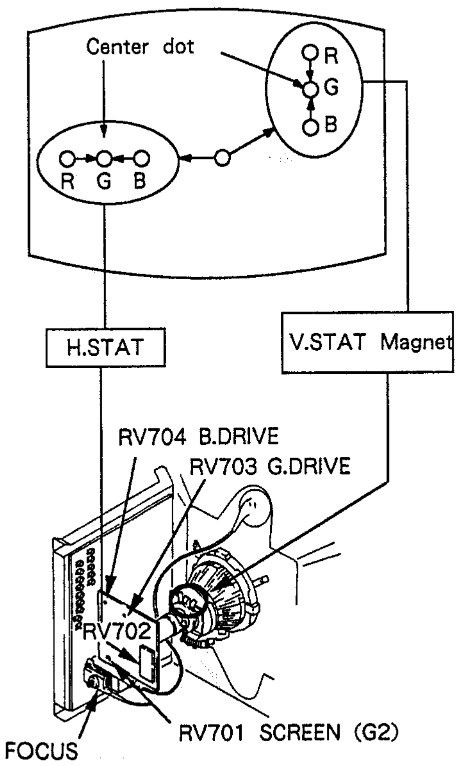


3−2. CONVERGENCE

Preparation :

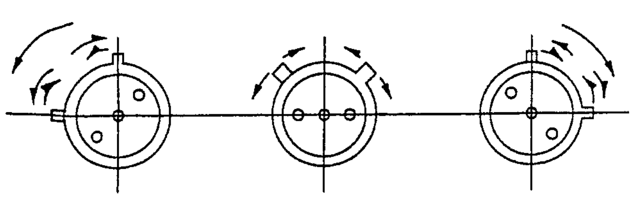
- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence

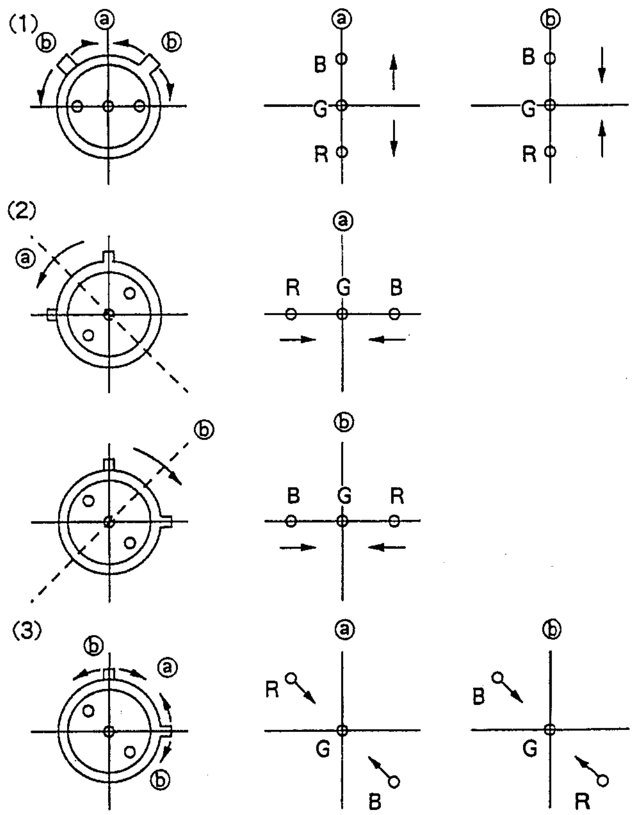


1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen.(Horizontal movement)
2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen.(Vertical movement)
3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below.
   (In this case, H. STAT VR and V. STAT magnet effect each other.)

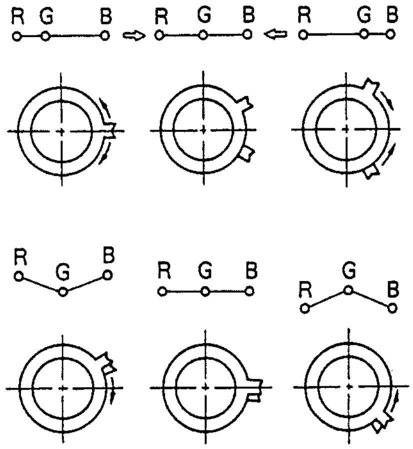
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.

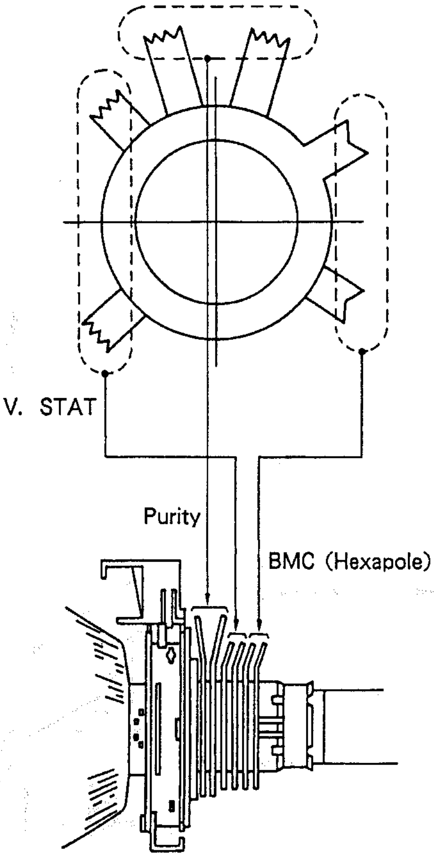


4. When the V. STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green and blue dots move as shown below.



● Operation of BMC (Hexapole) Magnet





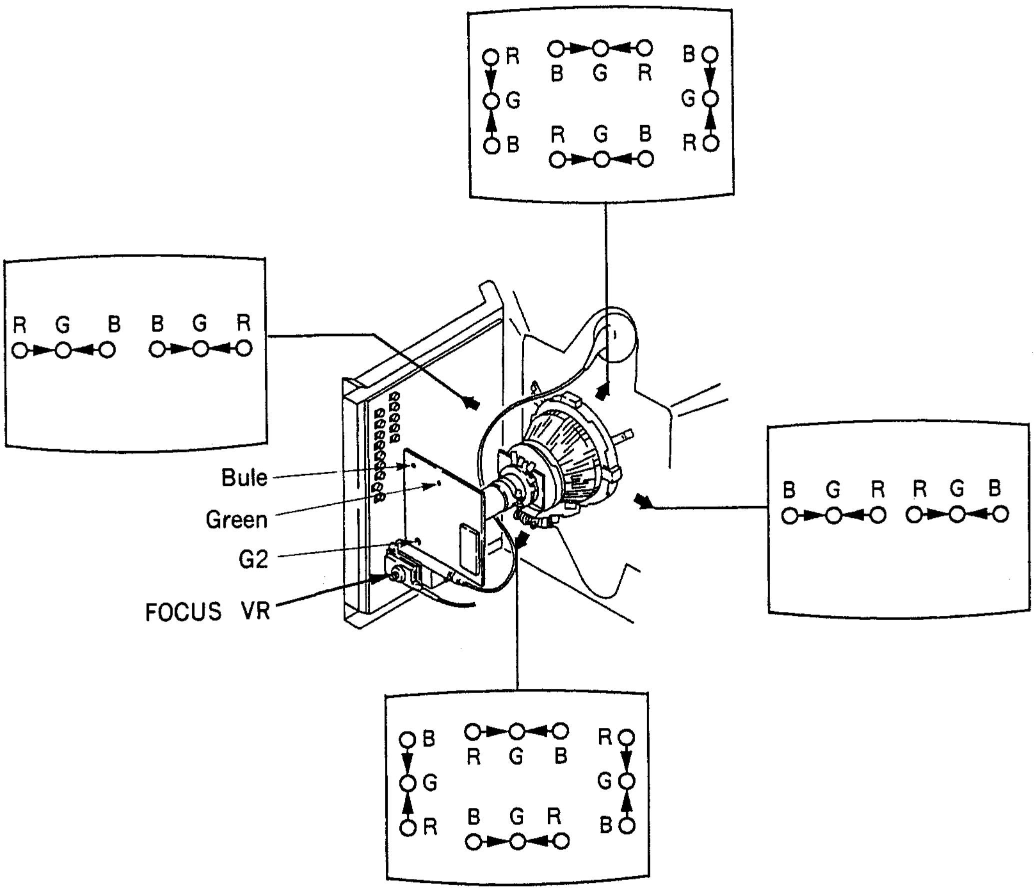
● The respective dot operations resulting from the operation of each magnet are not completely independent, so be sure to perform adjustment while tracking.
Use the H. STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

(2) Dynamic Convergence Adjustment

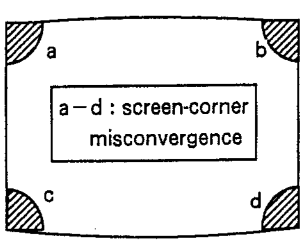
Preparation :

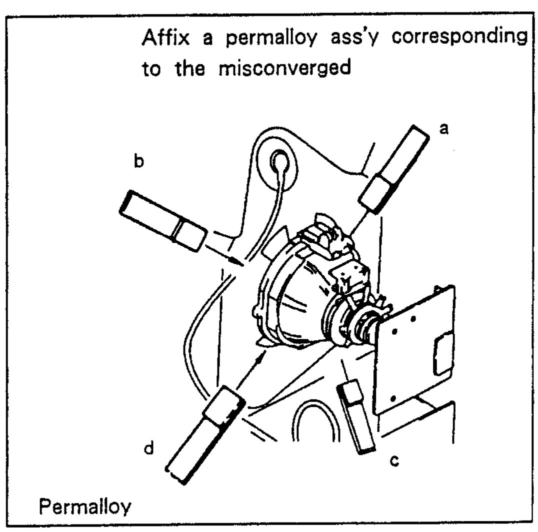
- Before starting, perform Horizontal and Vertical Static Convergence Adjustment..

1. Slightly 'loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



(3) Screen-corner Converence





3−3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.

3–4. WHITE BALANCE

〔Screen (G2) Setting〕

1. Input dot signals from the pattern generator.
2. Set the picture BRIGHTNESS control to the minimum level.
3. Apply 170 V dc to the cathodes of R, G, and B from an external power source.
4. While watching the picture; adjust the G2 volume (RV701) immediately before the fly-back line disappears.

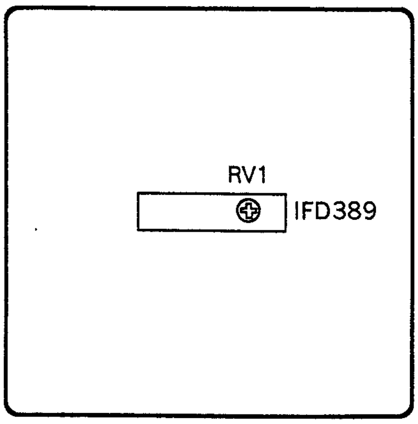
〔White Balance Adjustment〕

1. Input all-white signals from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the white balance using RV704 (B DRIVE) and RV703 (G DRIVE).

In the following adjustments, the CONTRAST COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

SECTION 4
CIRCUIT ADJUSTMENTS

4–1. A BOARD ADJUSTMENT

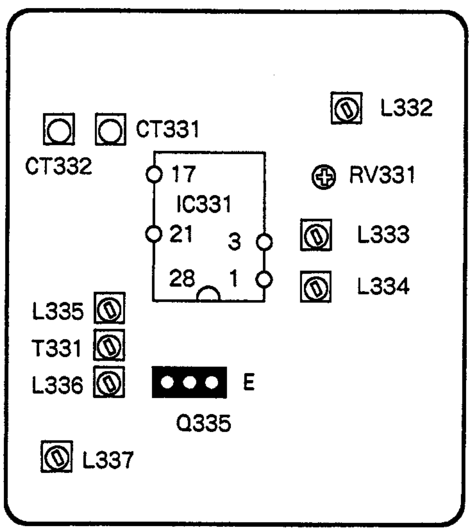


(Component side)

TUNER AGC Adjustment

1. Tune in an off–air signal.
2. Adjust AGC VR on IFD389 so that snow–noise and cross–modulation just disappear from the picture.

4–2. B BOARD ADJUSTMENT



(Component side)

REF OSC NTSC 3.58MHz (CT331)

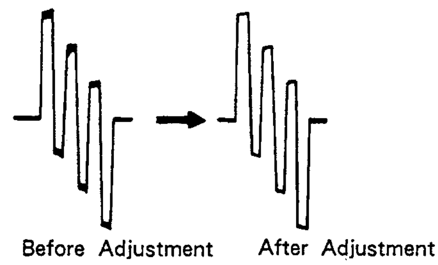
1. Input a NTSC 3.58MHz COLOR BAR pattern.
2. Short circuit between pin ⑰ of IC331 and ground.
3. Adjust CT331 to obtain color synchronization.
4. Remove the jumper wire from IC331.

REF OSC Adjustment NTSC 4.43MHz (CT332)

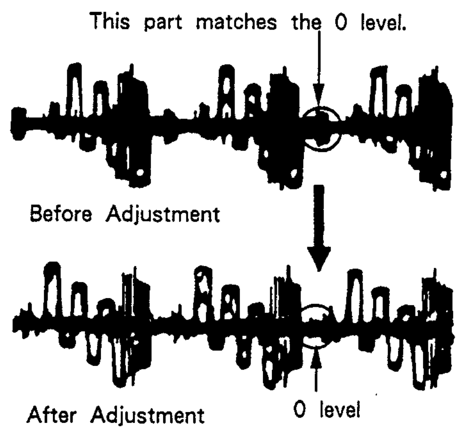
1. Input a NTSC 4.43MHz COLOR BAR pattern.
2. Short circuit between pin ⑰ of IC331 and ground.
3. Adjust CT332 to obtain color synchronization.
4. Remove the jumper wire from IC331.

1H DELAY LINE Adjustment (L332, RV331)

1. Input a PAL COLOR BAR pattern.
2. Connect the oscilloscope to pin ① (R–Y) of IC331 and observe the waveform of the H block on the oscilloscope.
3. Adjust L332 to minimize the double waveform outline.



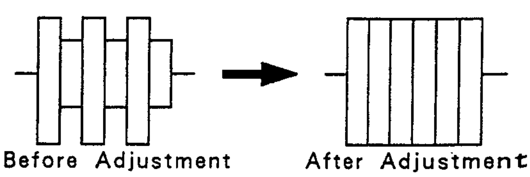
4. Input a TEST COLOR BAR pattern.
5. Rotate the RV331 control and adjust till the ANT PAL of the waveform part matches the 0 level.



6. L332 and RV331 affect each other. Repeat till the conditions of both meet.

SECAM ID Adjustment (L335)

1. Input a SECAM COLOR BAR pattern.
2. Connect a Digital Multimeter at pin ㉑ of IC331.
3. Adjust L335 so that the indicator goes up to the maximum.

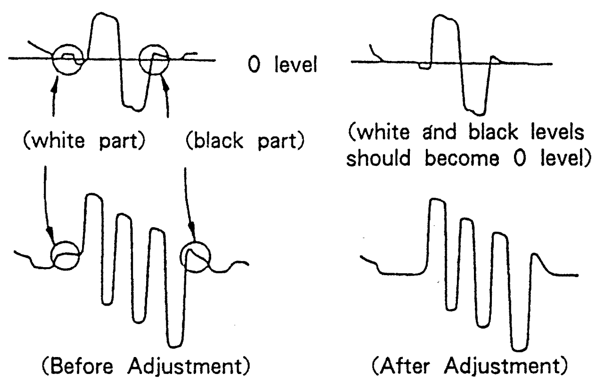


BELL FILTER Adjustment (T331)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to the Q335 emitter.
3. Adjust T331 so that the waveform becomes flat.

SECAM DISCRI Adjustment (L333, L334)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to pin ① of IC331.
3. Adjust L333 so that white and black parts of the waveform of pin ① becomes 0 level.
4. Connect an oscilloscope to pin ③ of IC331.
5. Adjust L334 so that white and black part of the waveform of pin ③ becomes 0 level.



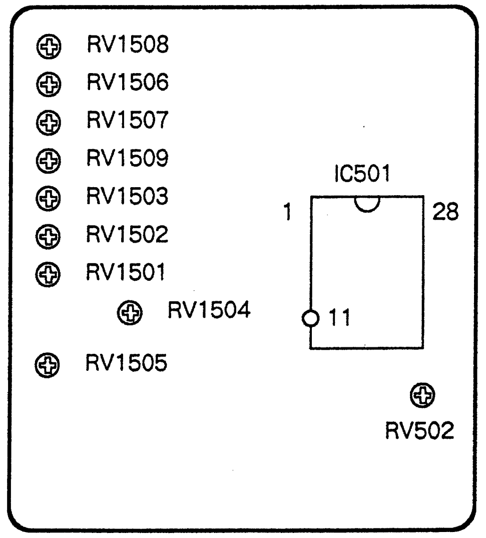
4.25 TRAP Adjustment (L336)

1. Input SECAM COLOR BAR pattern.
2. Adjust L336 so that noise just disappear from the picture.

4.43 TRAP Adjustment (L337)

1. Input PAL COLOR BAR pattern.
2. Adjust L337 so that noise just disappear from the picture.

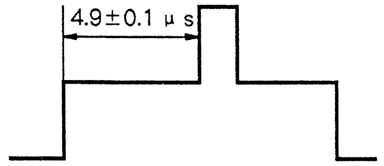
4-3. D BOARD ADJUSTMENT

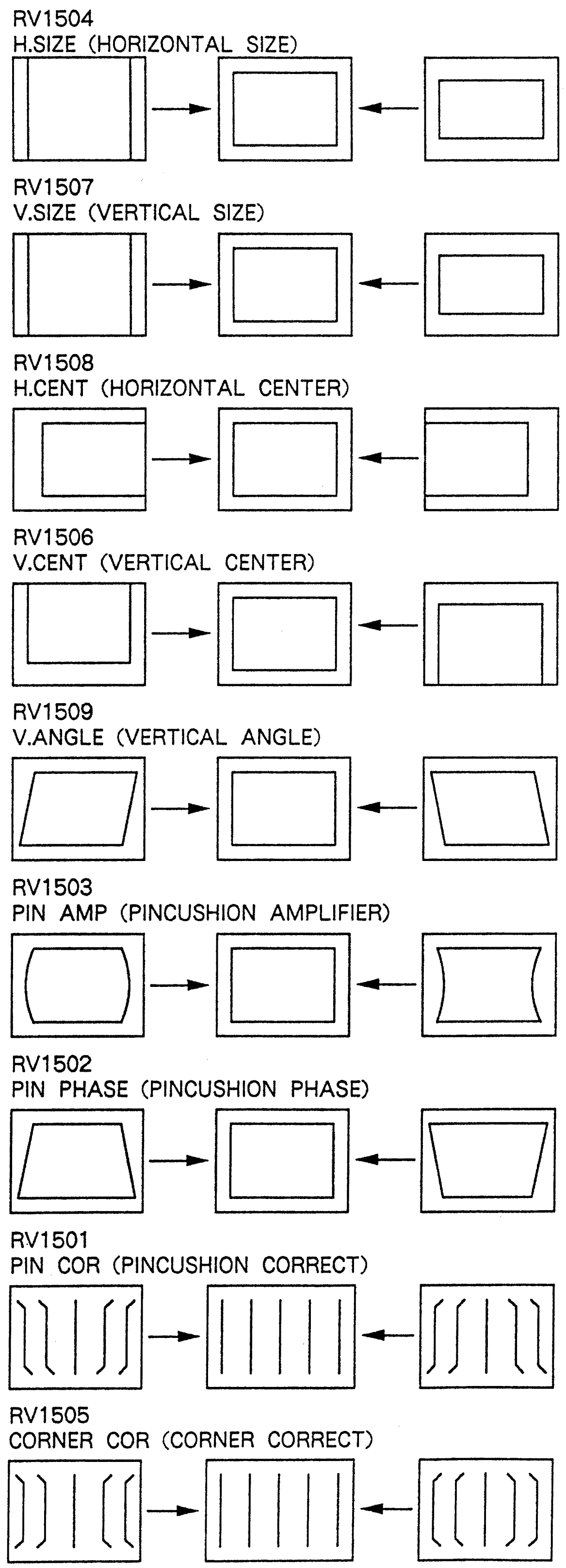


(Component side)

H. PHASE Adjustment (RV502)

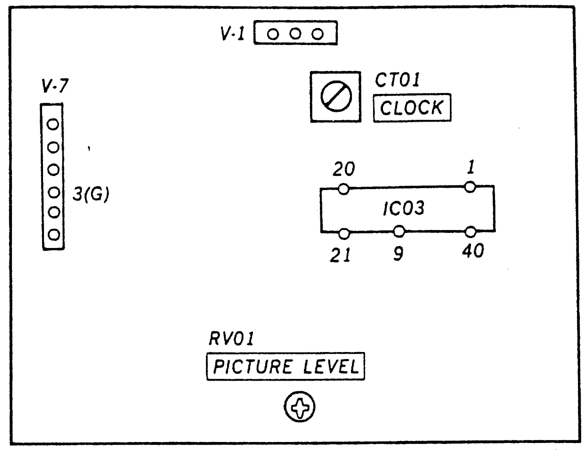
1. Input a PAL COLOR BAR pattern.
2. Set the CONTRAST and BRIGHTNESS controls to the standard positions.
3. Set RV1508 (H. CENT) to the mechanical center position.
4. Connect an oscilloscope to pin ⑪ (SPC OUT) of IC501.
5. Rotate RV502 and adjust Block T to 4.9±0.1 μs.





4-3. V BOARD ADJUSTMENTS

V Board



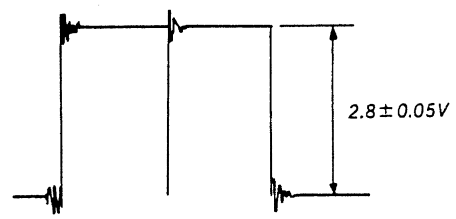
— component side —

CLOCK Adjustment (CT01)

1. *Disconnect V-1 connector.*
2. *Connect freguenuy counter to pin ⑨ of IC03.*
3. *Adjust CT01 to 6.0MHz ±50Hz.*
4. *connect V-1 connector.*

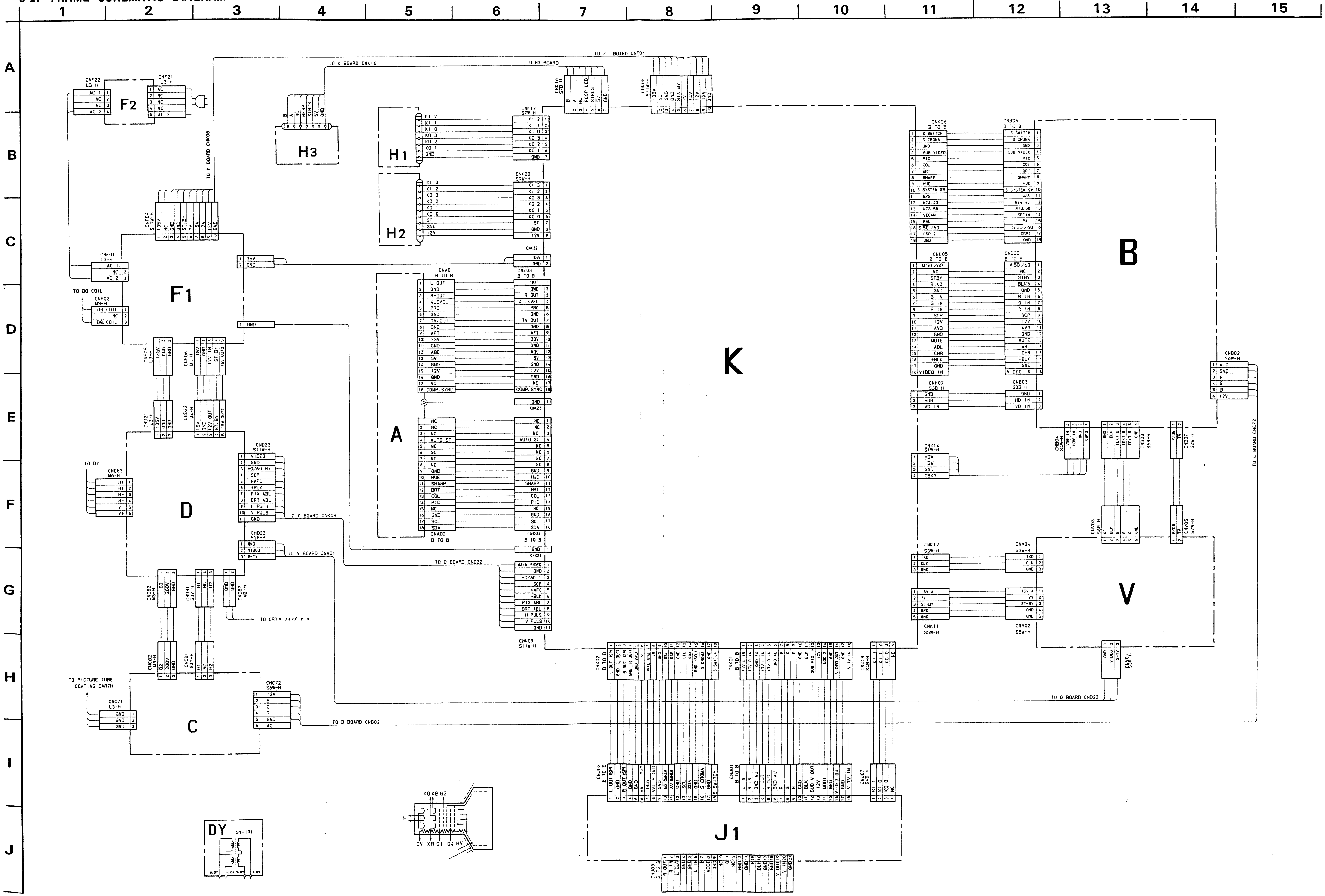
PICTURE LEVEL Adjustment (RV01)

1. *Connect oscilloscope to G output of V-7 connector.*
2. *Adjust RV01 so that G output level (black level to white peak) is 2.8±0.05V.*

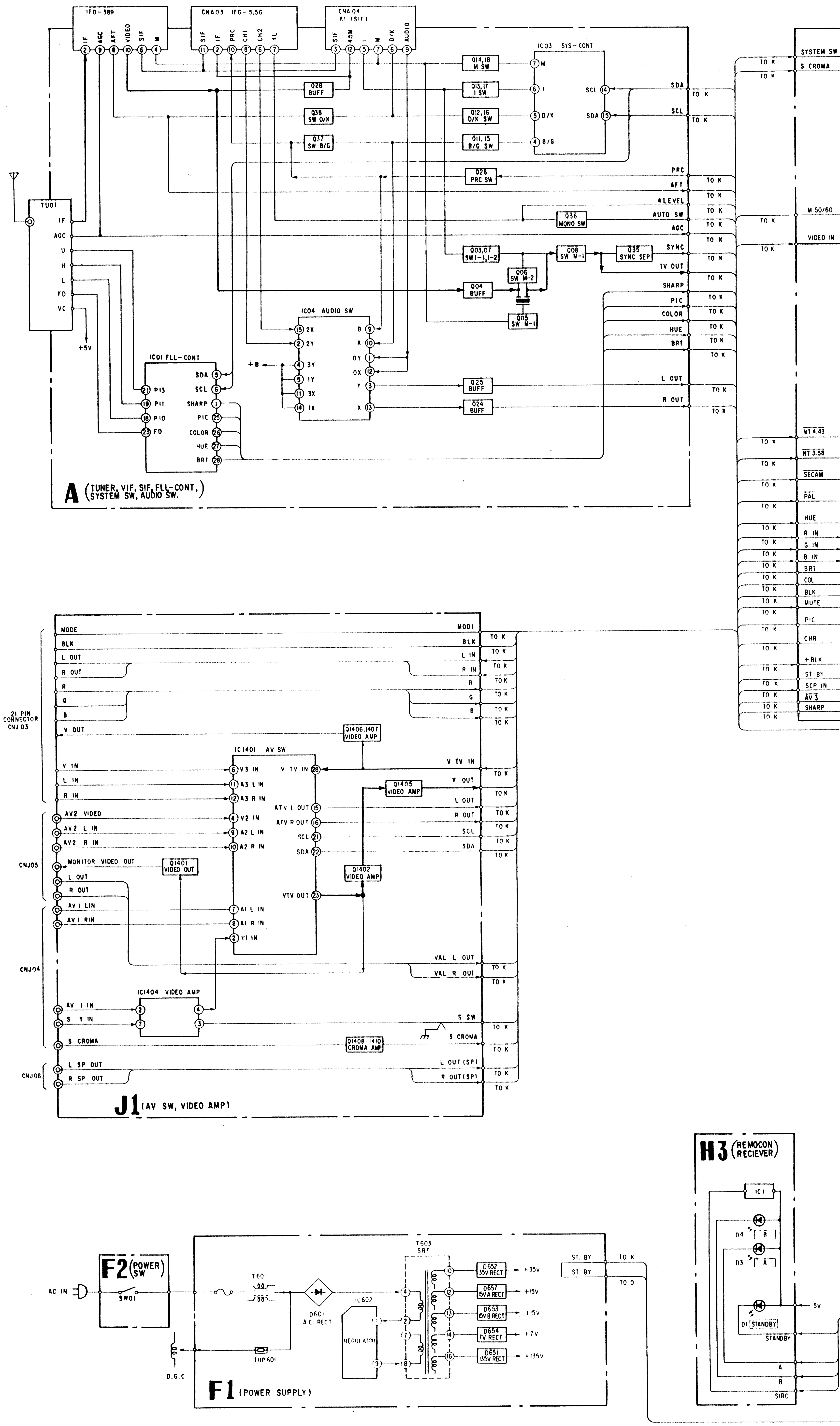


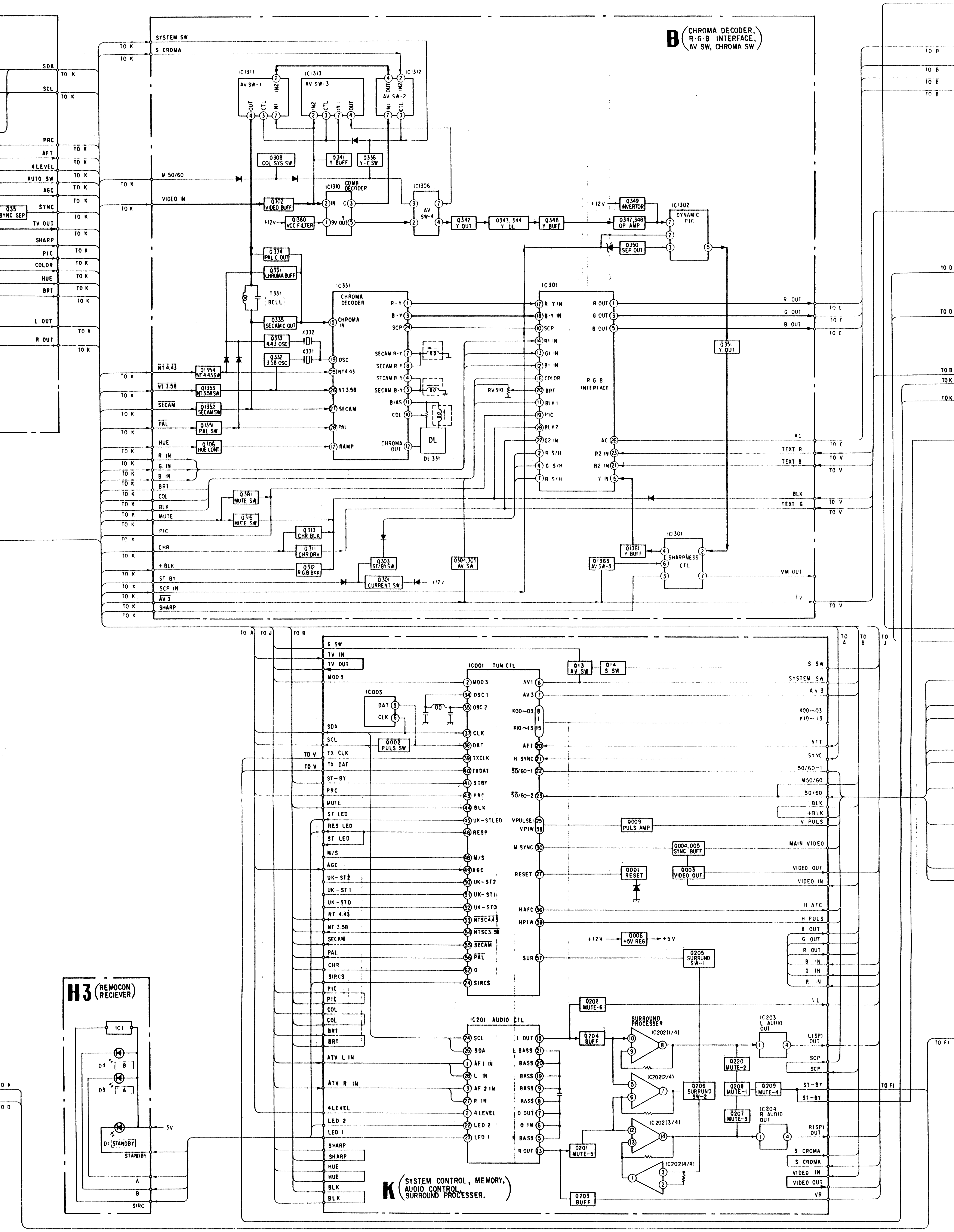
SECTION 5 DIAGRAM

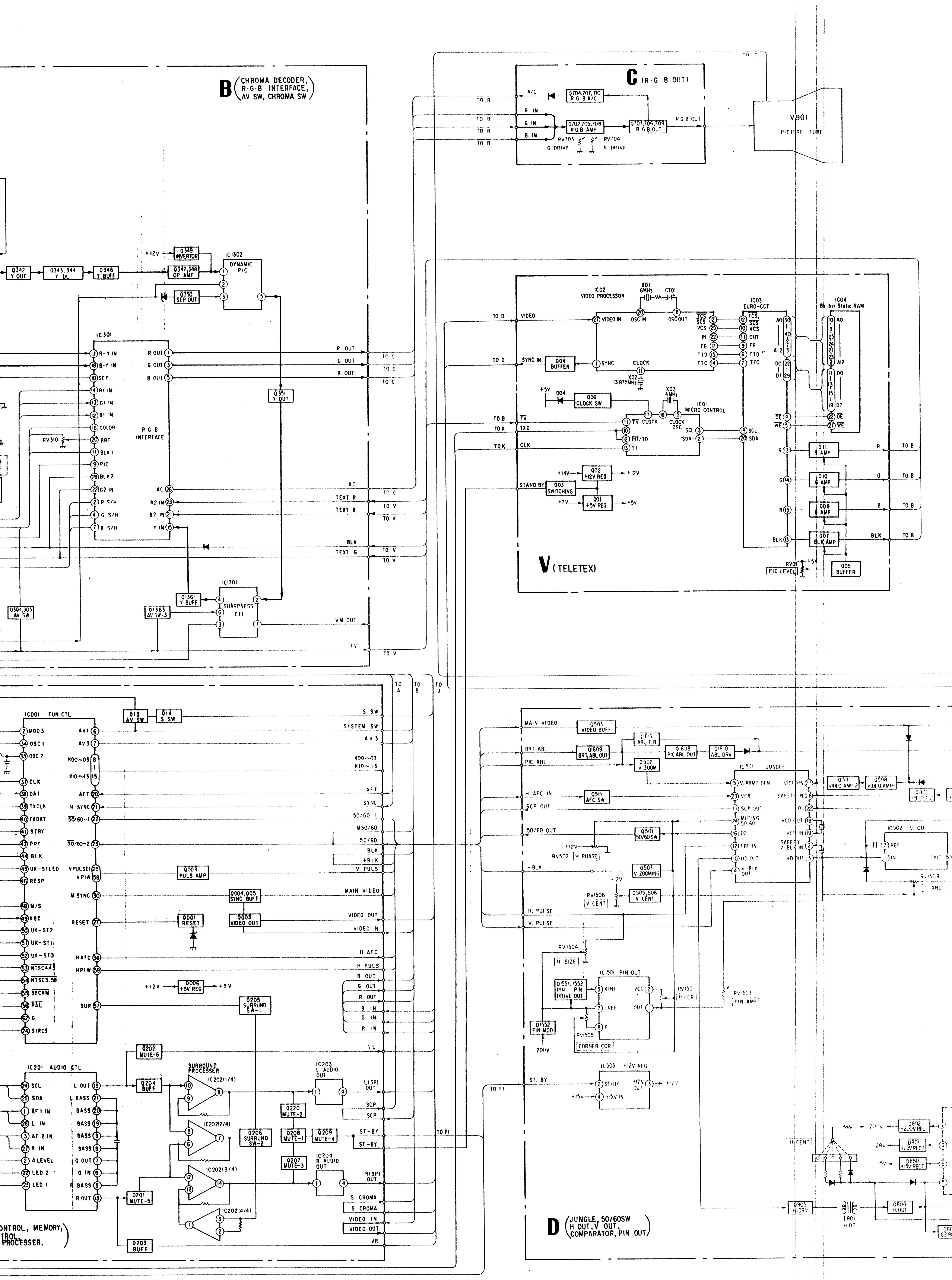
5-1. FRAME SCHEMATIC DIAGRAM

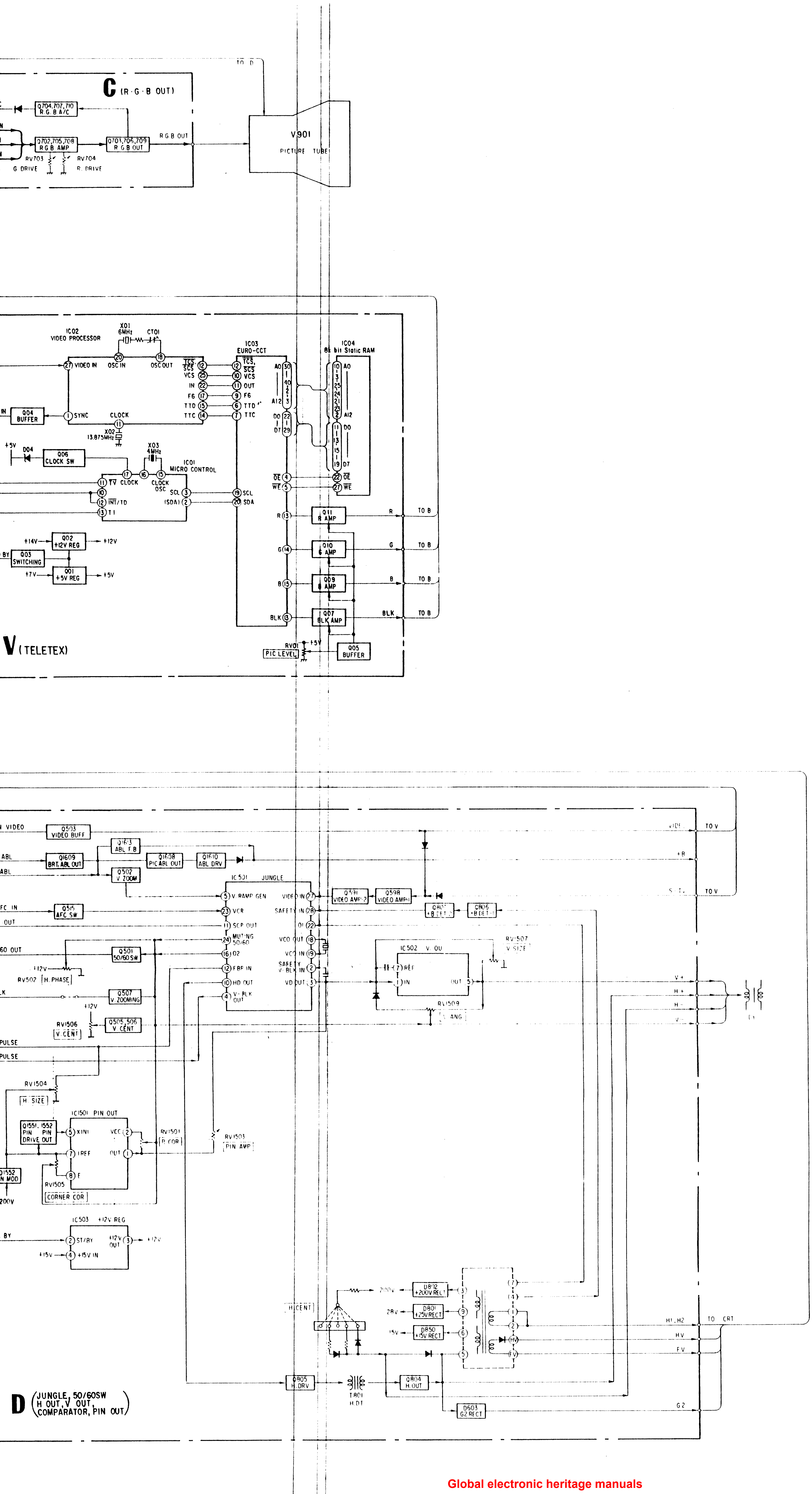


5-2. BLOCK DIAGRAM

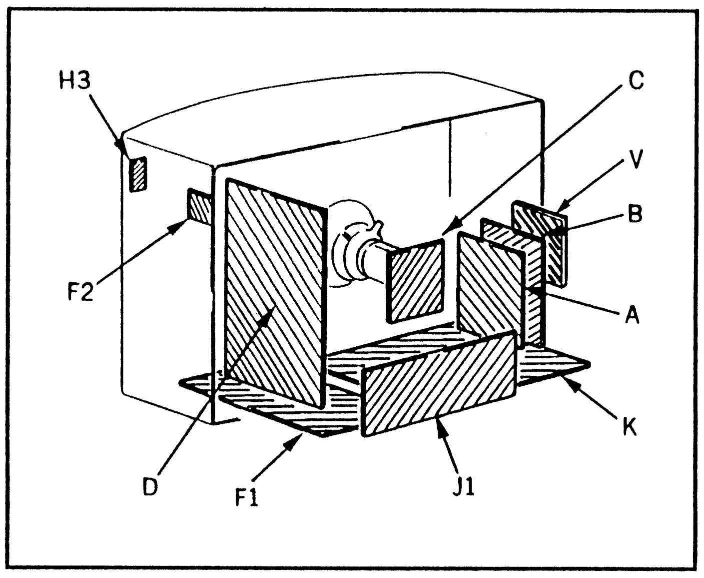



B (CHROMA DECODER, R·G·B INTERFACE, AV SW, CHROMA SW)
K (SYSTEM CONTROL, MEMORY, AUDIO CONTROL, SURROUND PROCESSER.)
H3 (REMOCON RECIEVER)
IC1311 AV SW-1
IC1313 AV SW-3
IC1312 AV SW-2
IC1310 COMB DECODER
IC1306 AV SW-4
IC1302 DYNAMIC PIC
IC331 CHROMA DECODER
IC301 R G B INTERFACE
IC1301 SHARPNESS CTL
IC001 TUN CTL
IC003
IC201 AUDIO CTL
IC202 SURROUND PROCESSER
IC203 L AUDIO OUT
IC204 R AUDIO OUT


B (CHROMA DECODER, R·G·B INTERFACE, AV SW, CHROMA SW)
C (R·G·B OUT)
V901 PICTURE TUBE
V (TELETEX)
D (JUNGLE, 50/60SW H OUT, V OUT, COMPARATOR, PIN OUT)
IC301 R G B INTERFACE
IC1302 DYNAMIC PIC
IC1301 SHARPNESS CTL
IC02 VIDEO PROCESSOR
IC03 EURO-CCT
IC04 8k bit Static RAM
IC01 MICRO CONTROL
IC001 TUN CTL
IC201 AUDIO CTL
SURROUND PROCESSER
IC203 L AUDIO OUT
IC204 R AUDIO OUT
IC501 JUNGLE
IC502 V OUT
IC1501 PIN OUT
IC503 +12V REG
T801 HDT


C (R·G·B OUT)
V901
PICTURE TUBE
V (TELETEX)
D (JUNGLE, 50/60SW H OUT, V OUT, COMPARATOR, PIN OUT)

5-3. CIRCUIT BOARDS LOCATION



Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Rating electrical power : 1/4W

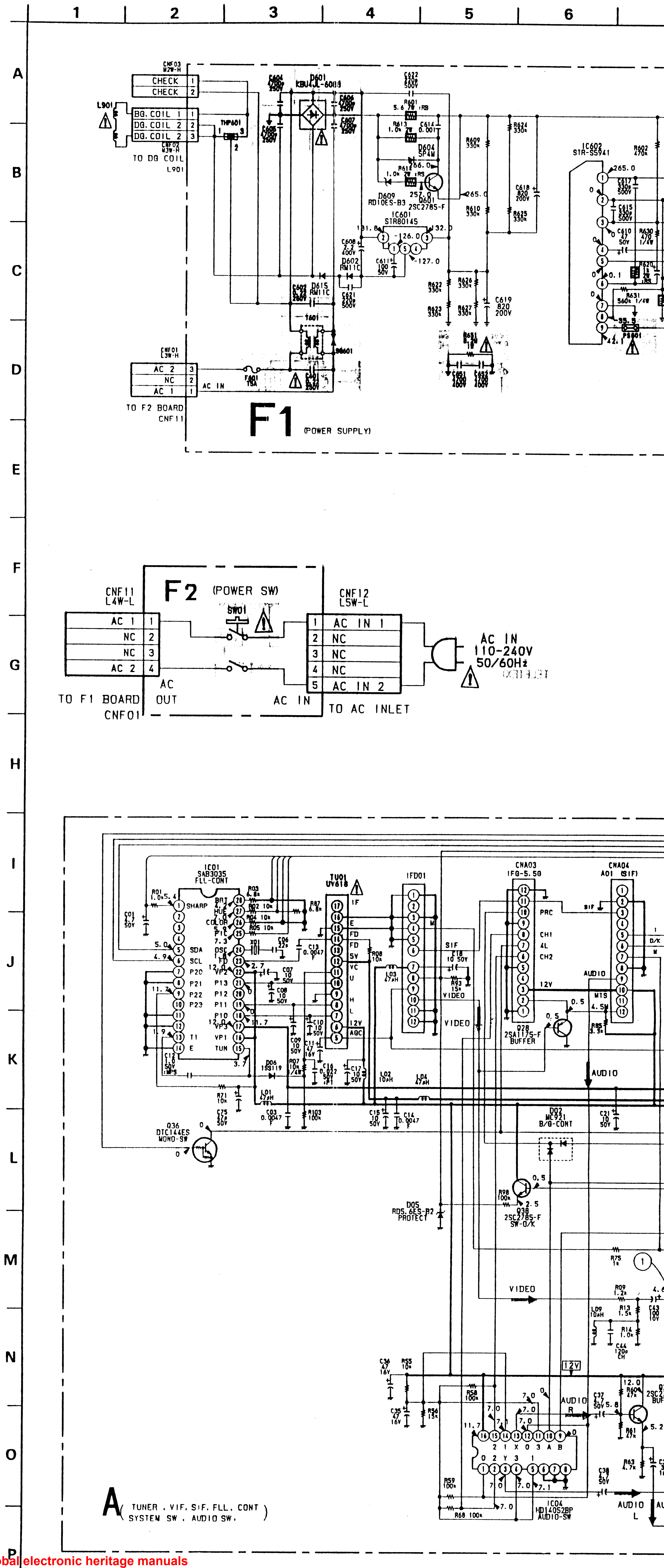
- All resistors are in ohms.
- [nonflammable resistor symbol] : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10M Ω digital multimeter.
- Readings are taken with a PAL color−bar signal input.
  no mark : PAL
  < > : SECAM
  ( ) : NTSC 3.58MHz
  [ ] : NTSC 4.43MHz
- ▭ : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- ▬▬ : B+line
- ⤳ : signal path.

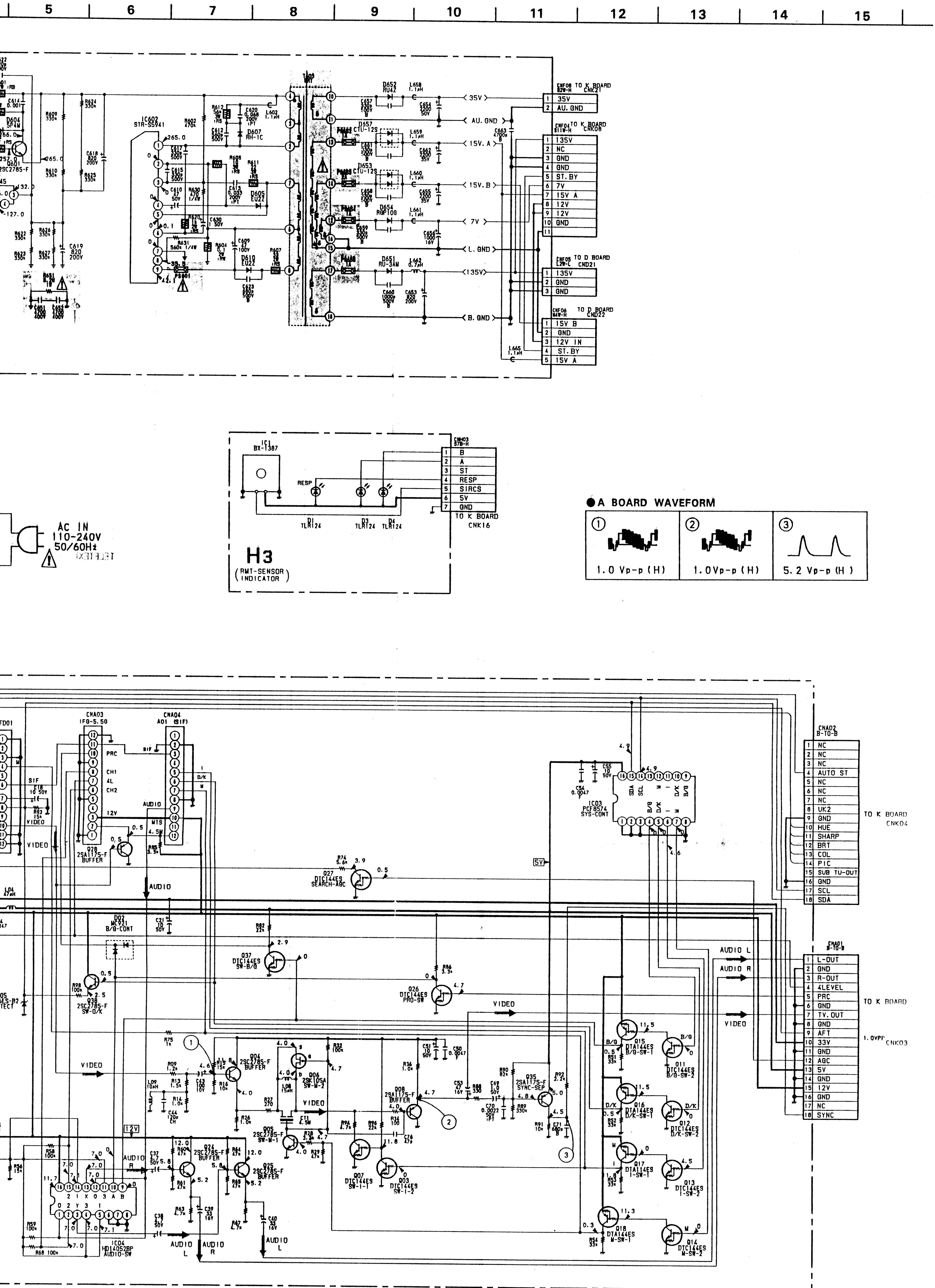
Reference information

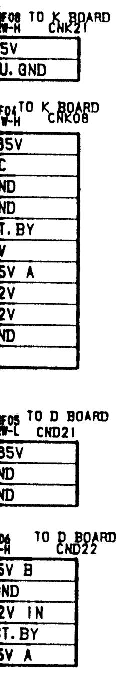
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE WIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF−8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ABL	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

5-4. SCHEMATIC DIAGRAM (1)



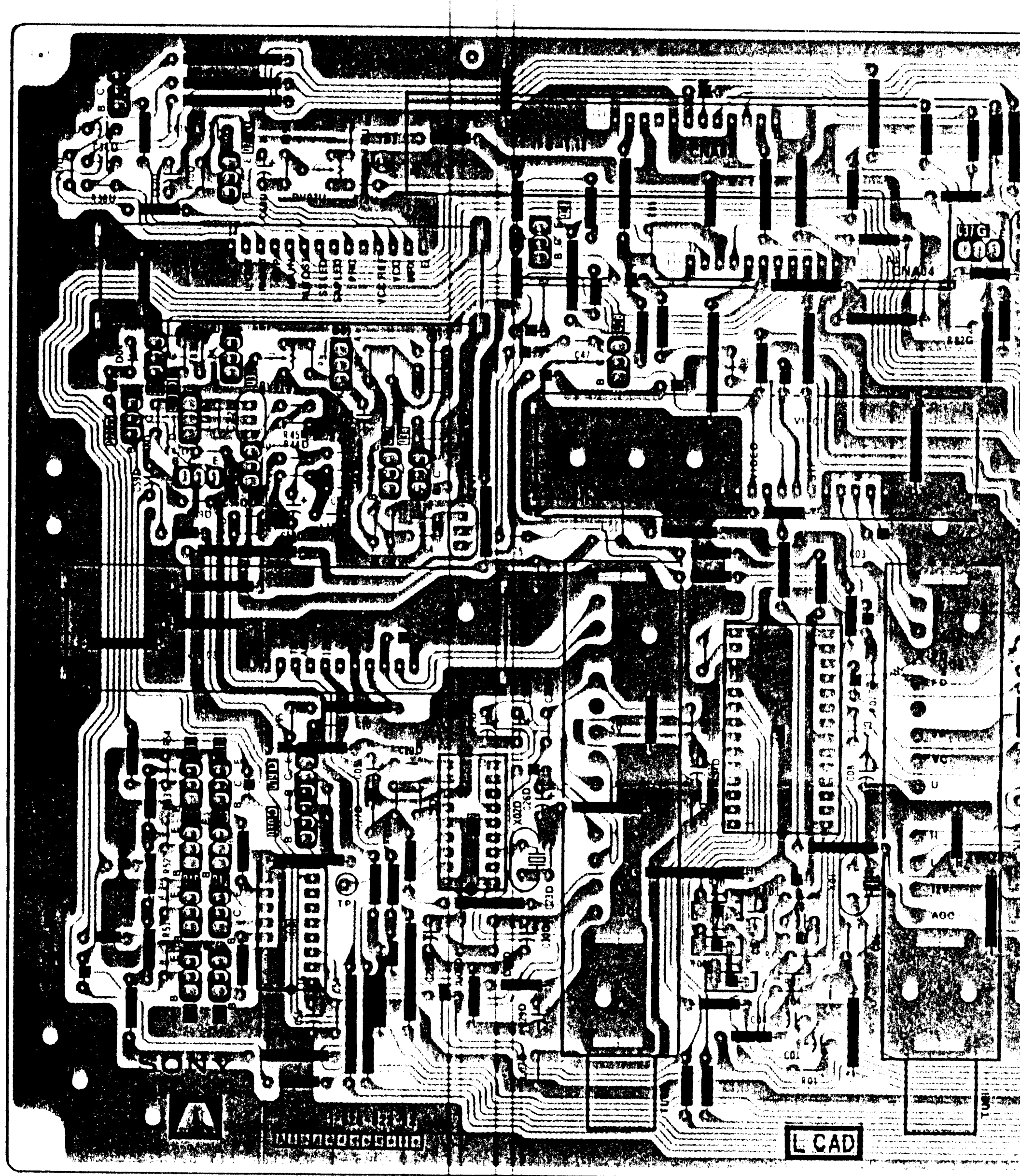

5
6
7
8
9
10
11
12
13
14
15
IC602 STR-S5941
35V
AU. GND
15V. A
15V. B
7V
L. GND
135V
B. GND
CNF08 TO K BOARD CNK21
CNF04 TO K BOARD CNK08
CNF05 TO D BOARD CND21
CNF06 TO D BOARD CND22
1 35V
2 AU. GND
1 135V
2 NC
3 GND
4 GND
5 ST. BY
6 7V
7 15V A
8 12V
9 12V
10 GND
11
1 135V
2 GND
3 GND
1 15V B
2 GND
3 12V IN
4 ST. BY
5 15V A
AC IN
110-240V
50/60Hz
IC1 BX-1387
RESP
D1 TLR124
D3 TLR124
D4 TLR124
1 B
2 A
3 ST
4 RESP
5 SIRCS
6 5V
7 GND
TO K BOARD CNK16
H3
(RMT-SENSOR INDICATOR)
A BOARD WAVEFORM
1.0 Vp-p (H)
1.0Vp-p (H)
5.2 Vp-p (H)
CNA03 IFG-5.5Q
CNA04 A01 (SIF)
SIF
VIDEO
AUDIO
Q28 2SA1175-F BUFFER
Q27 DTC144ES SEARCH-AGC
IC03 PCF8574 SYS-CONT
CNA02 B-TO-B
1 NC
2 NC
3 NC
4 AUTO ST
5 NC
6 NC
7 NC
8 UK2
9 GND
10 HUE
11 SHARP
12 BRT
13 COL
14 PIC
15 SUB TU-OUT
16 GND
17 SCL
18 SDA
TO K BOARD CNK04
Q02 MC921 B/G-CONT
Q37 DTC144ES SW-B/G
Q38 2SC2785-F SW-D/K
Q26 DTC144ES PRO-SW
AUDIO L
AUDIO R
CNA01 B-TO-B
1 L-OUT
2 GND
3 R-OUT
4 4LEVEL
5 PRC
6 GND
7 TV. OUT
8 GND
9 AFT
10 33V
11 GND
12 AGC
13 5V
14 GND
15 12V
16 GND
17 NC
18 SYNC
TO K BOARD CNK03
Q04 2SC2785-F BUFFER
Q06 2SK105A SW-M-2
Q08 2SA1175-F BUFFER
Q35 2SA1175-F SYNC-SEP
Q05 2SC2785-F SW-M-1
Q07 DTC144ES SW-I-1
Q03 DTC144ES SW-I-2
Q15 DTA144ES B/G-SW-1
Q11 DTC144ES B/G-SW-2
Q16 DTA144ES D/K-SW-1
Q12 DTC144ES D/K-SW-2
Q17 DTA144ES I-SW-1
Q13 DTC144ES I-SW-2
Q18 DTA144ES M-SW-1
Q14 DTC144ES M-SW-2
Q24 2SC2785-F BUFFER
Q25 2SC2785-F BUFFER
IC04 HD14052BP AUDIO-SW



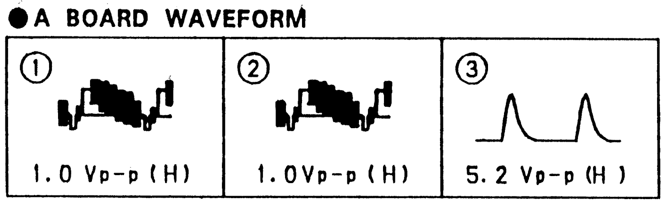
A [TUNER, VIF, SIF, FLL, CONT SYSTEM SW, AUDIO SW] F1 [POWER SUPPLY] F2 [POWER SW

5-5. PRINTED WIRING BOARDS (1) —conductor side—

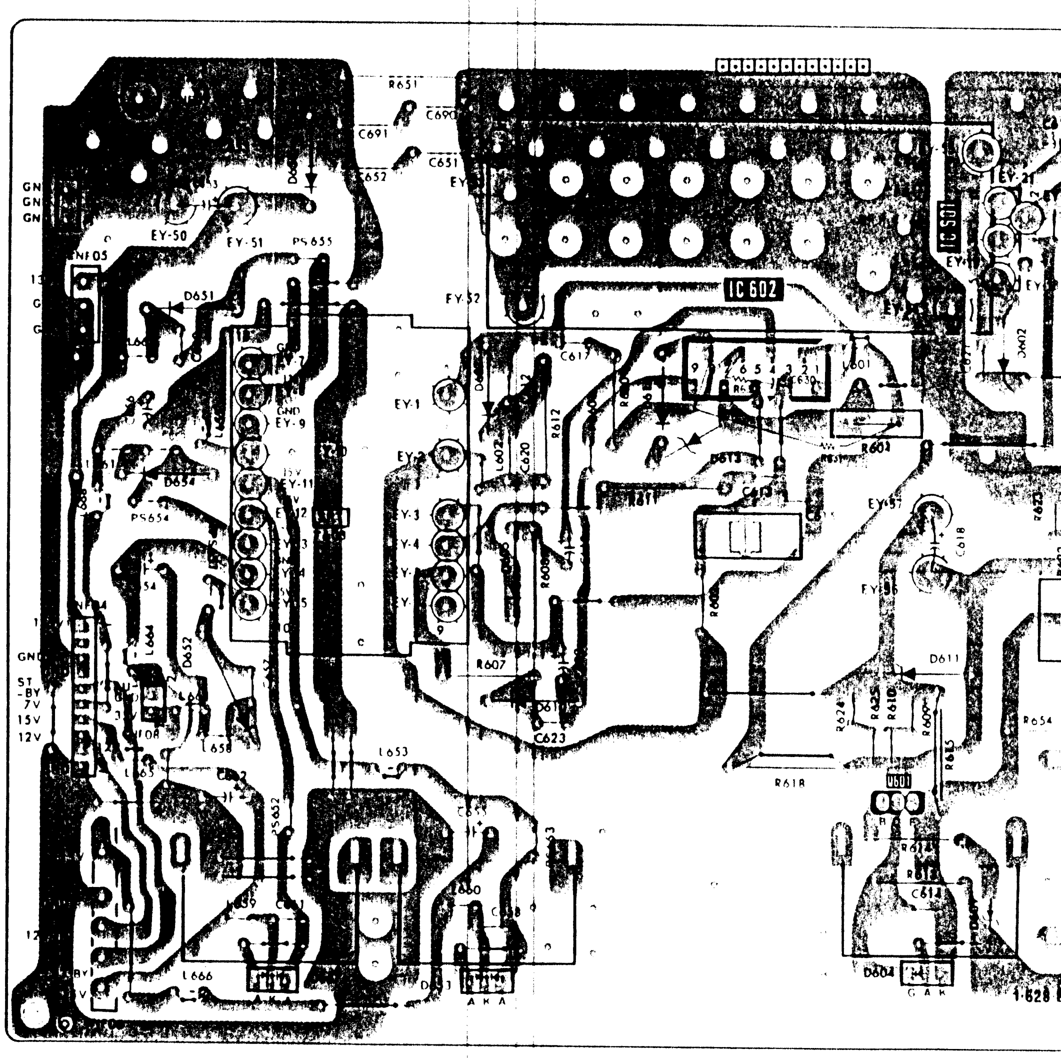
—A Board—

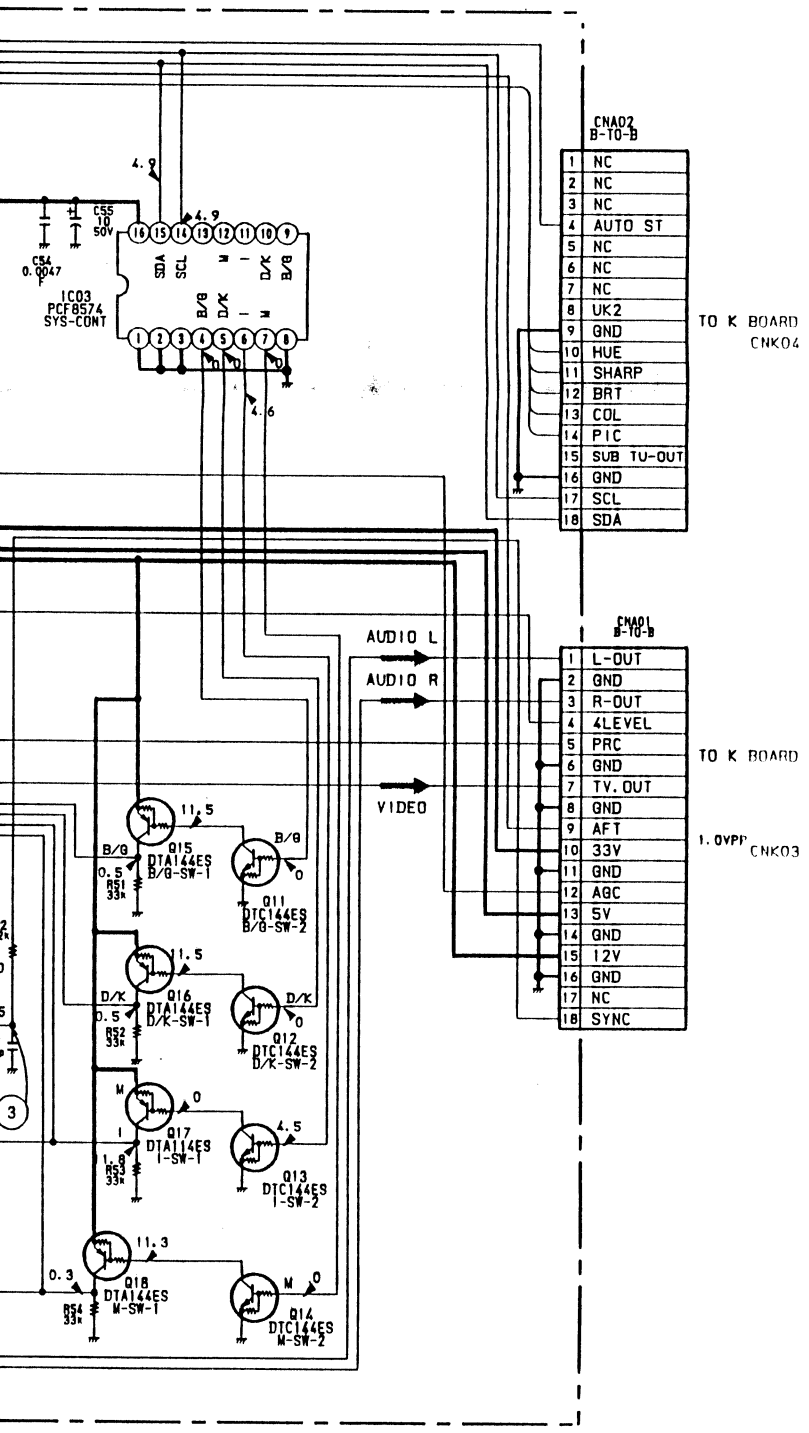


● A BOARD WAVEFORM

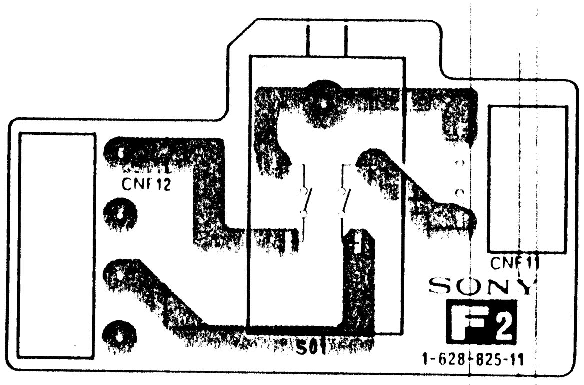


—F1 Board—

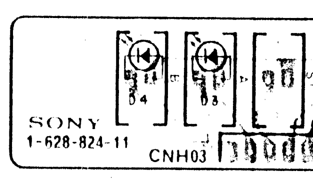




—F2 Board—



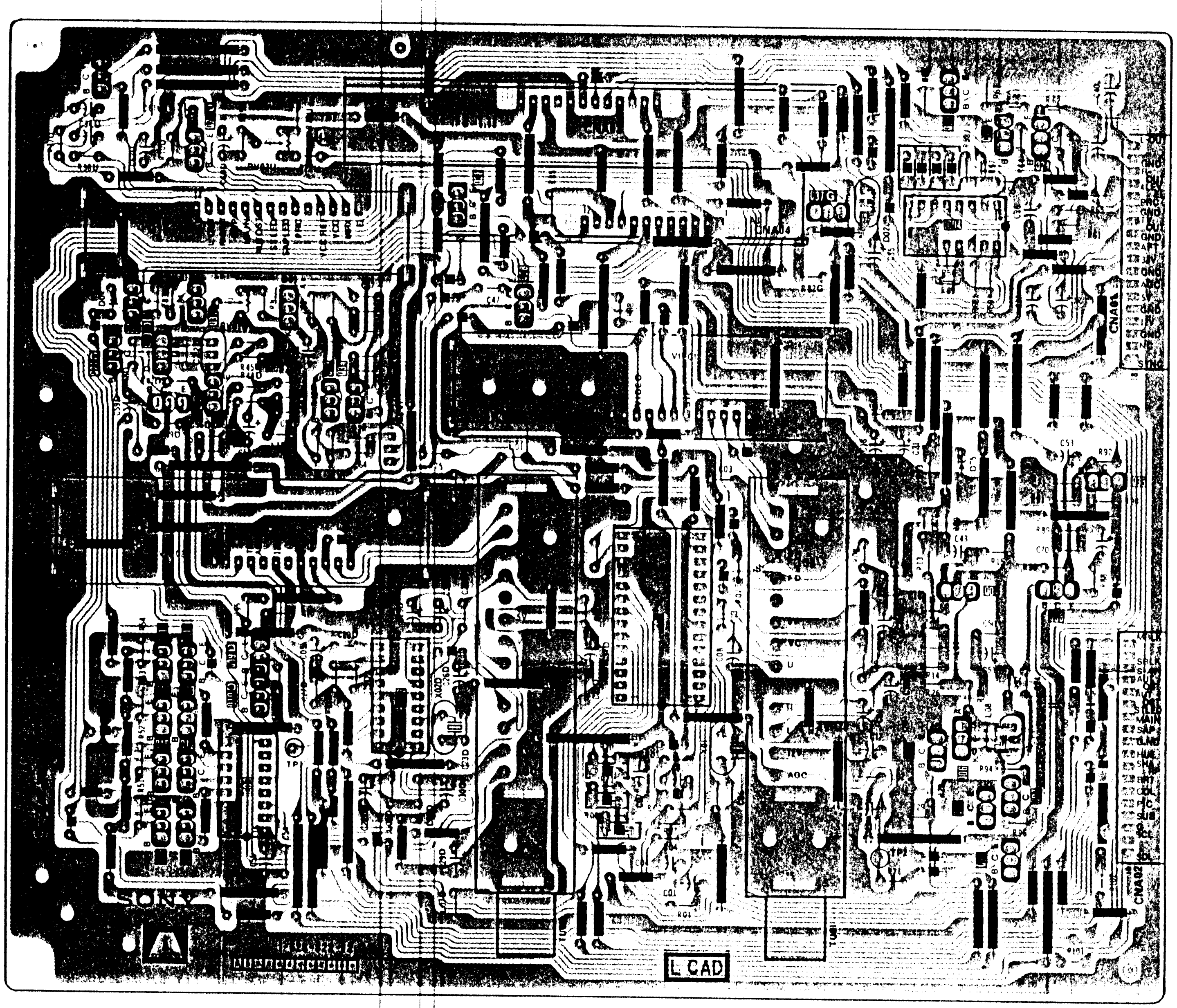
—H3 Board—



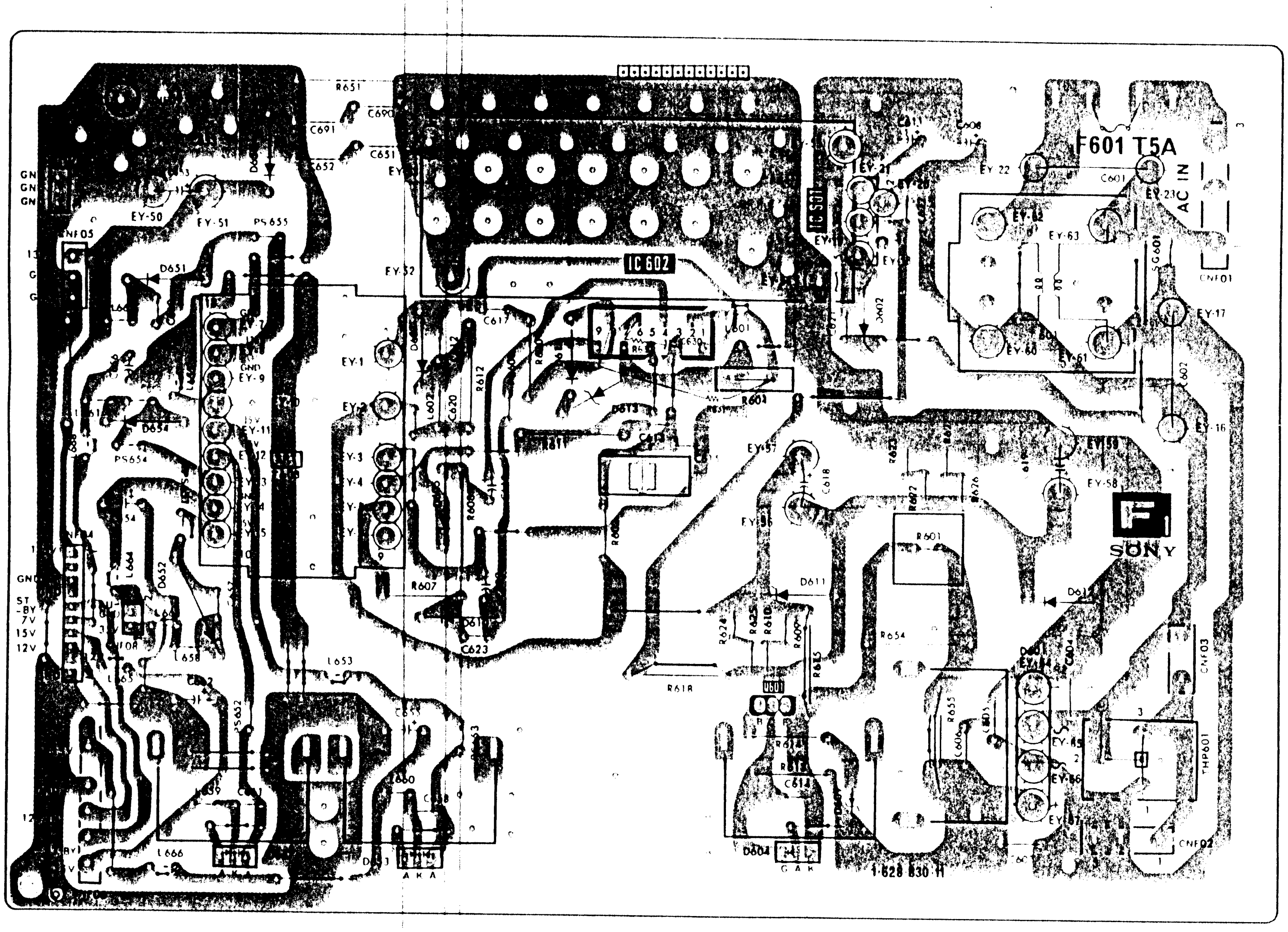
[TUNER, VIF, SIF, FLL, CONT SYSTEM SW, AUDIO SW] **F1** [POWER SUPPLY] **F2** [POWER SW] **H3** [RMT-SENSOR INDICATOR]

RINTED WIRING BOARDS (1) —conductor side—

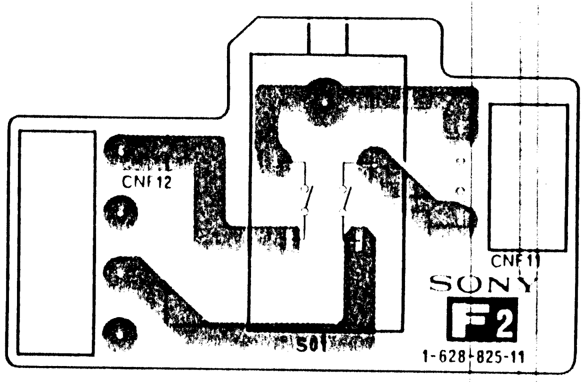
ard—



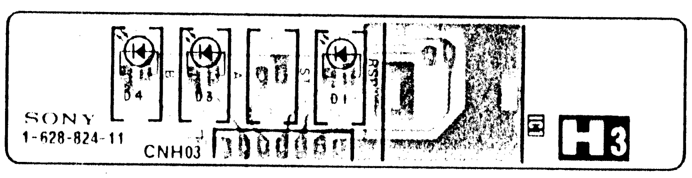
ard—



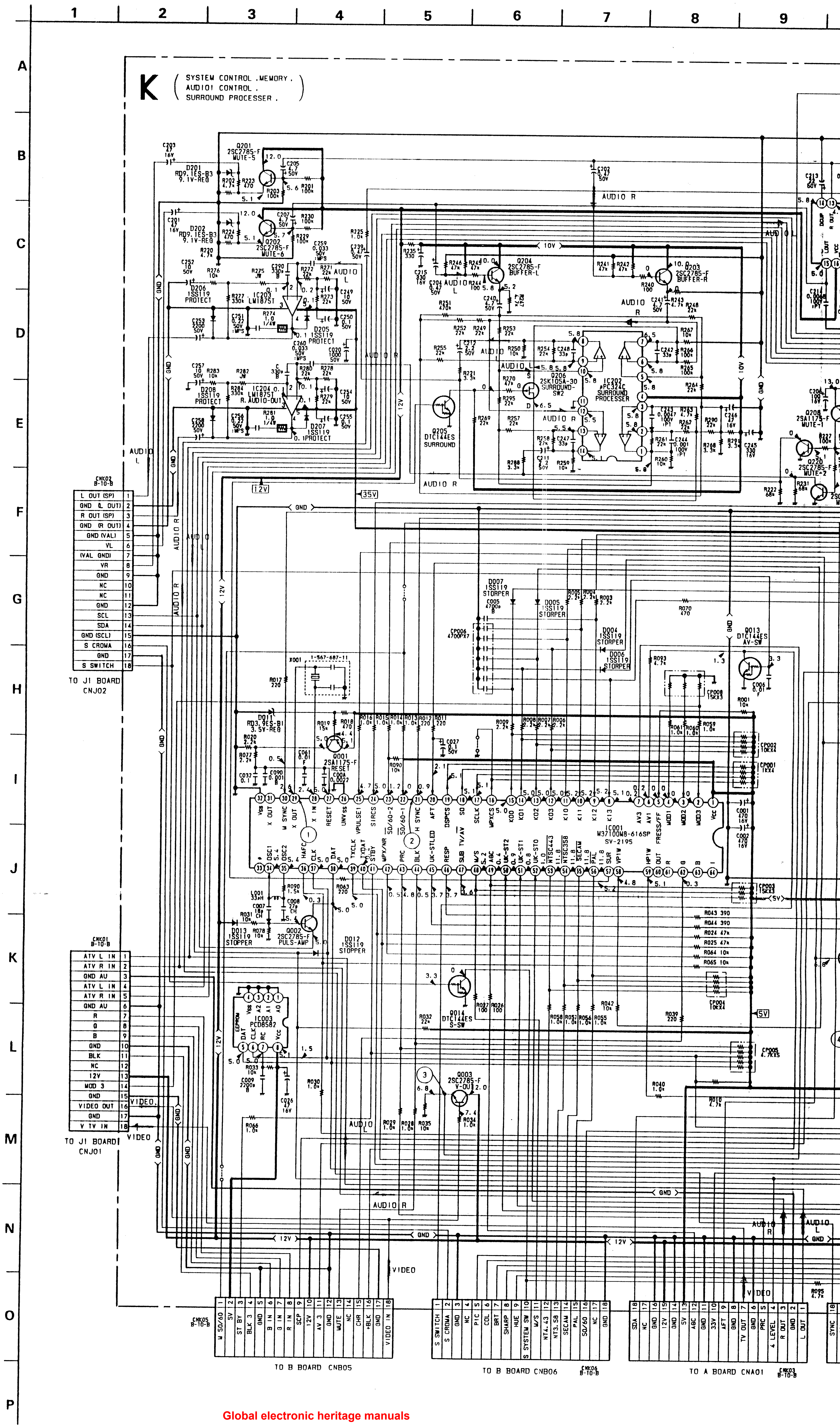
ard—

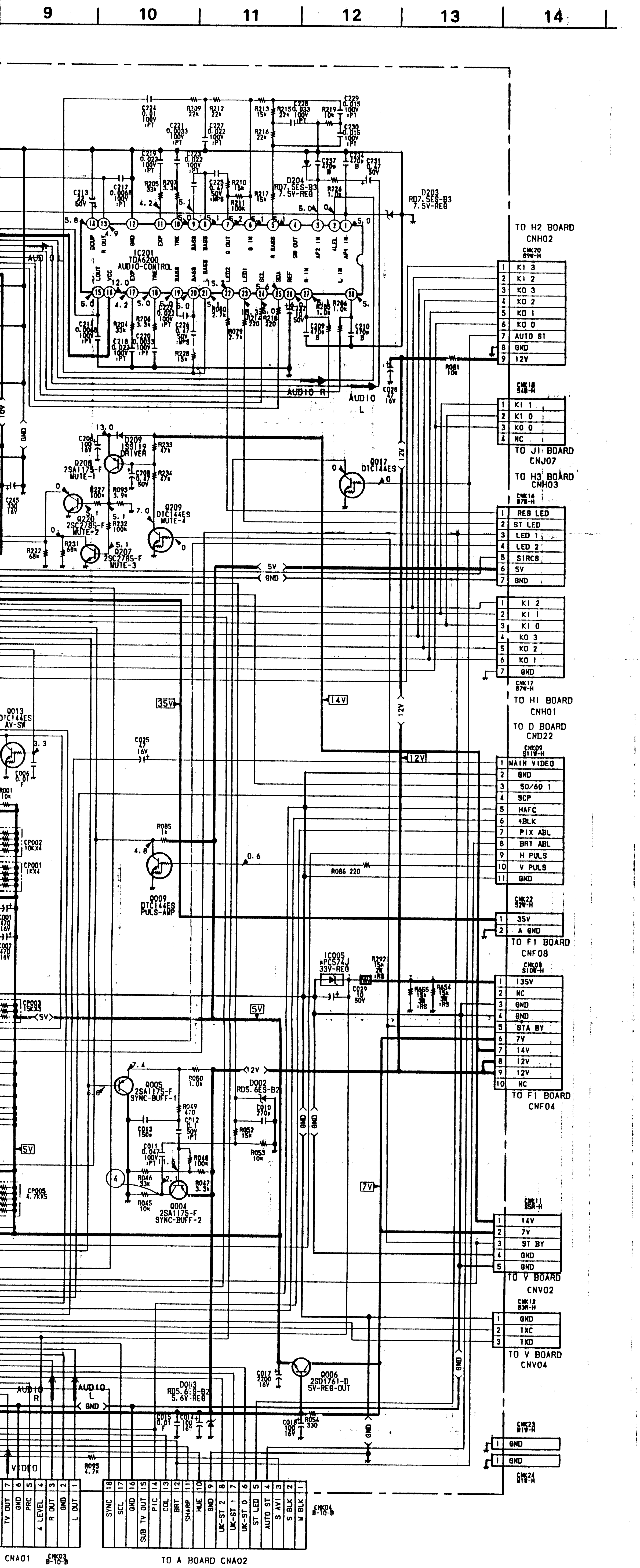


—H3 Board—



5-6. SCHEMATIC DIAGRAM (2)

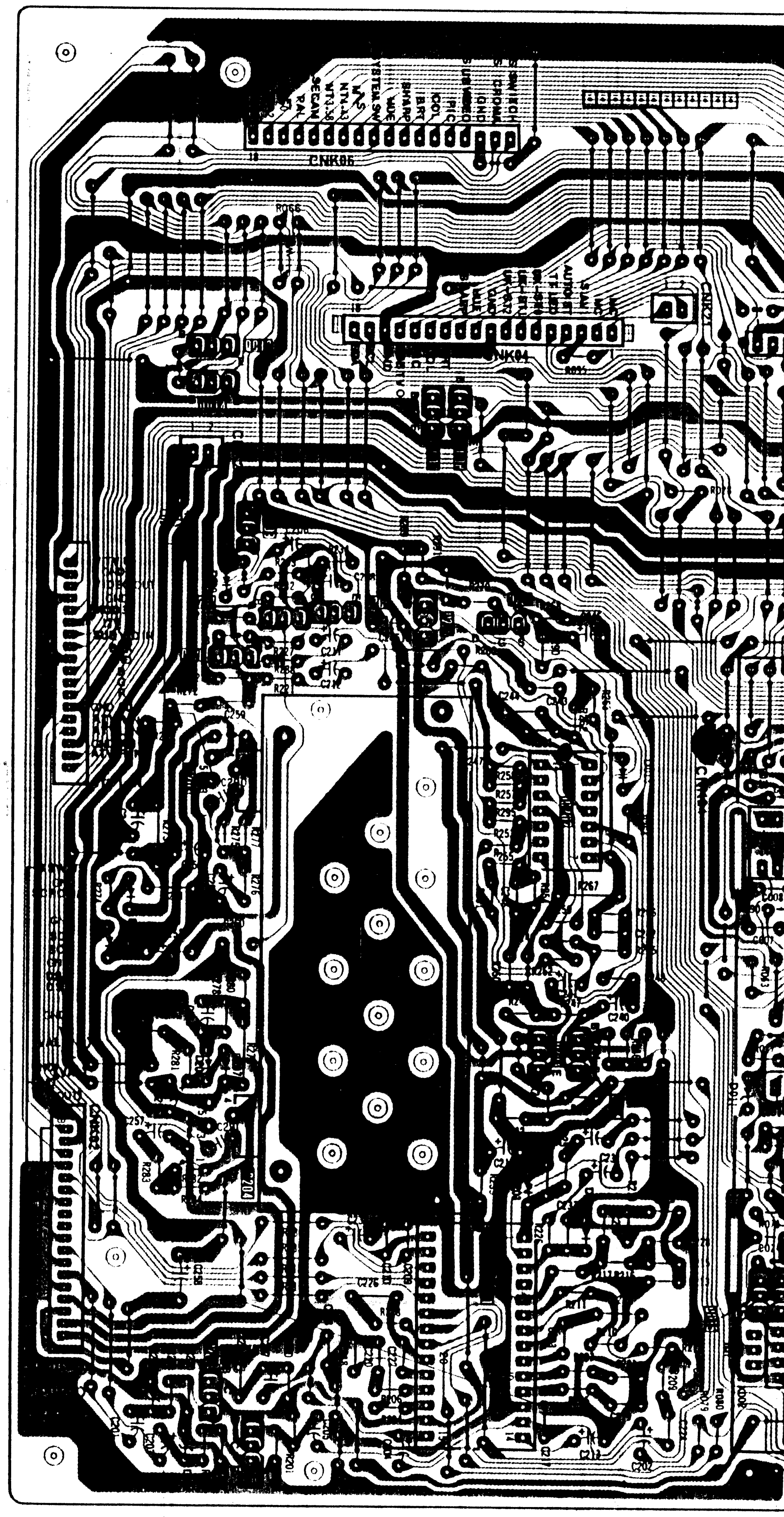




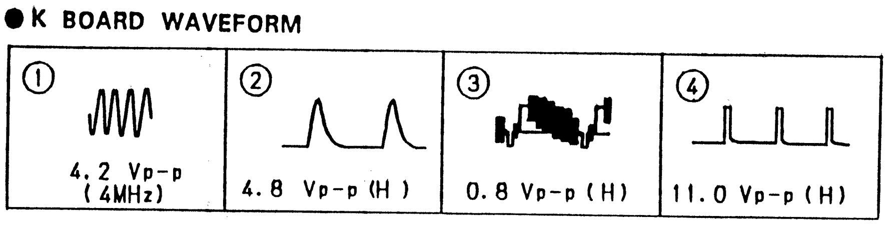
K [SYSTEM CONTROL, MEMORY, AUDIO CONTROL, SURROUND PROCESSER]

5-7. PRINTED WIRING BOARDS (2) —conductor side—

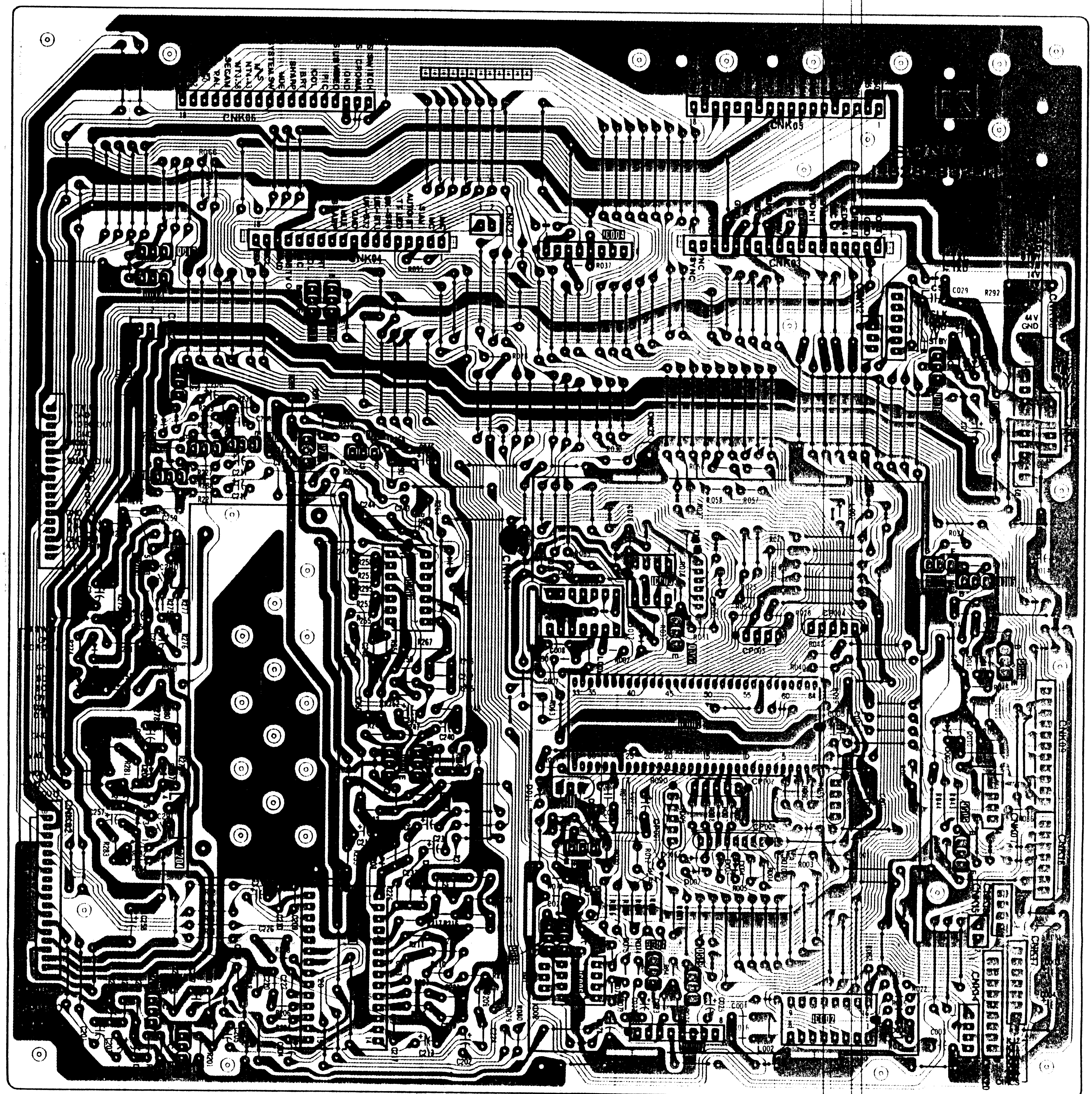
—K Board—



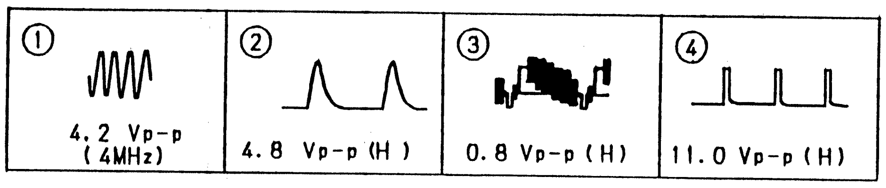
● K BOARD WAVEFORM



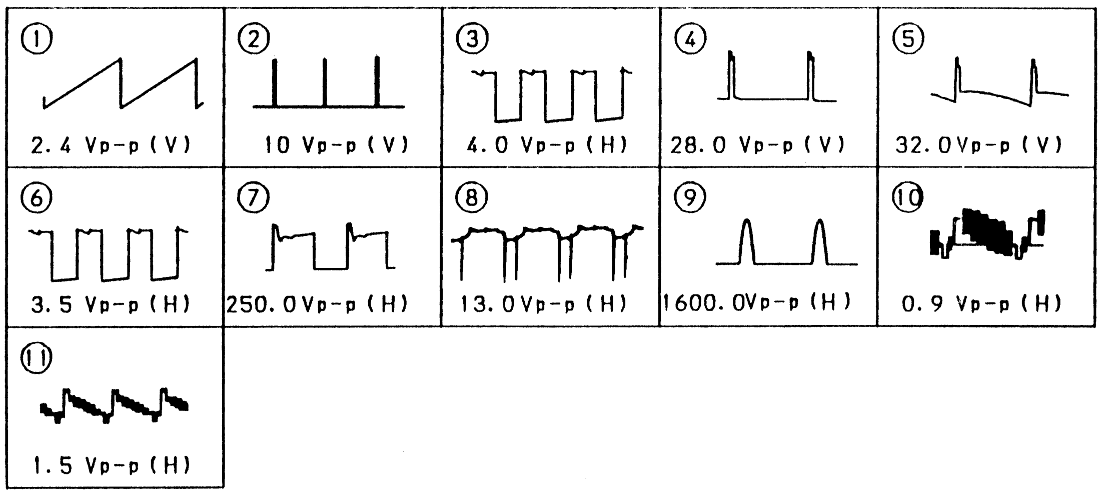
5-7. PRINTED WIRING BOARDS (2) —conductor side—
—K Board—



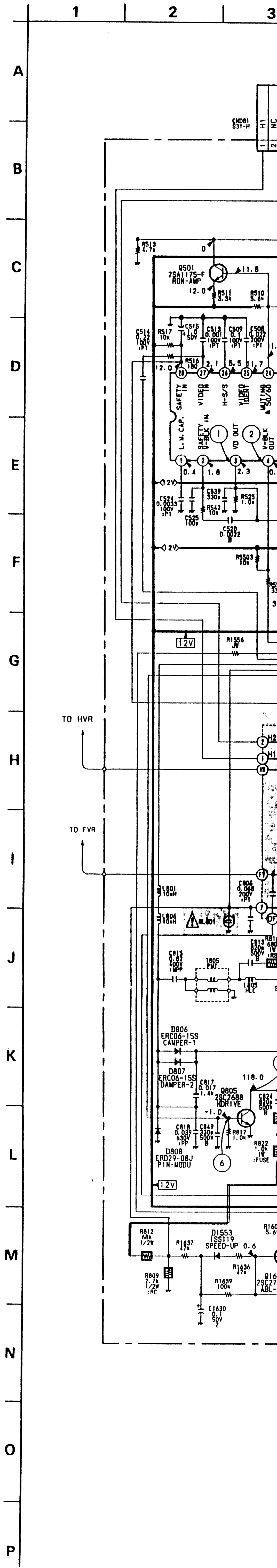
● K BOARD WAVEFORM



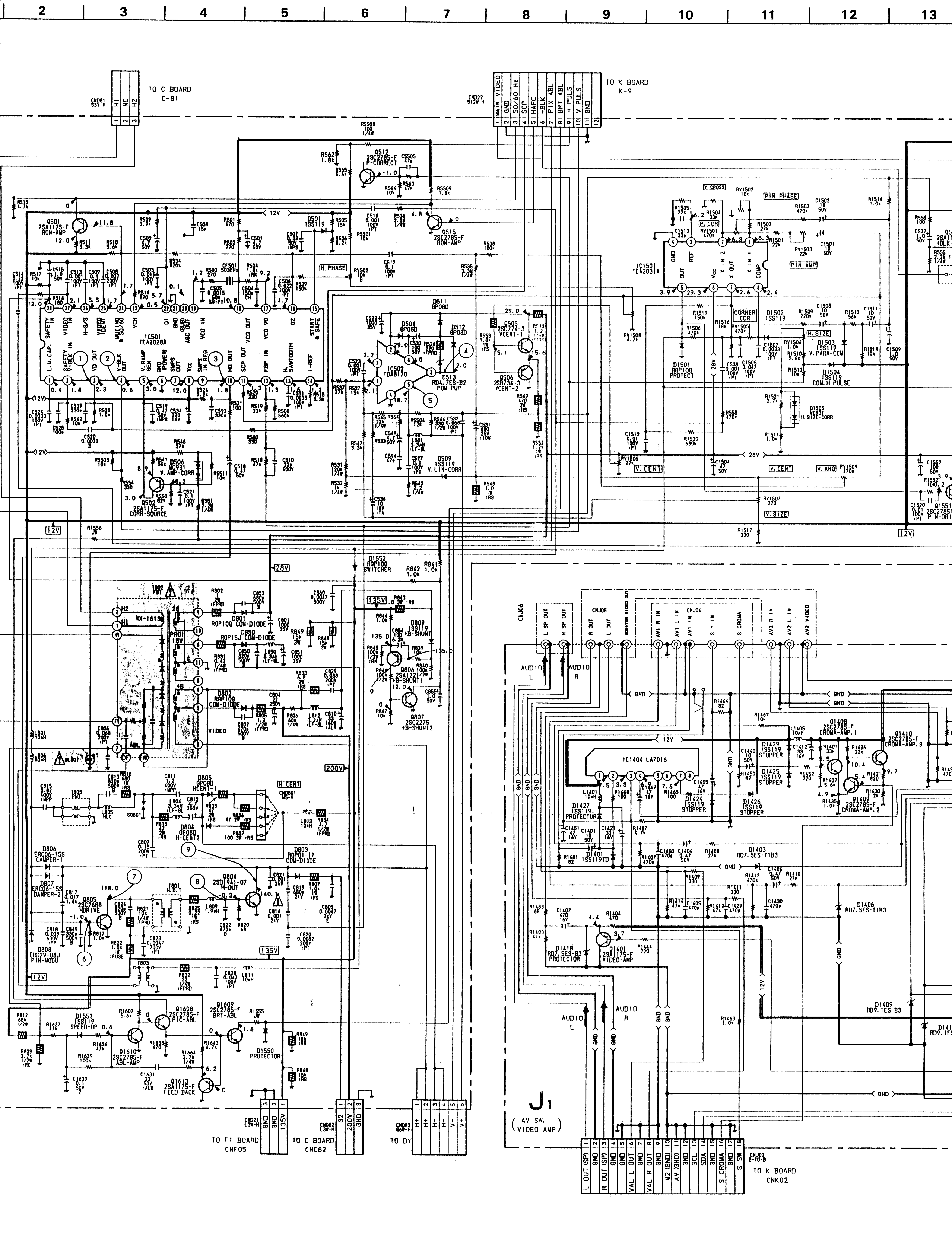
● D BOARD WAVEFORM

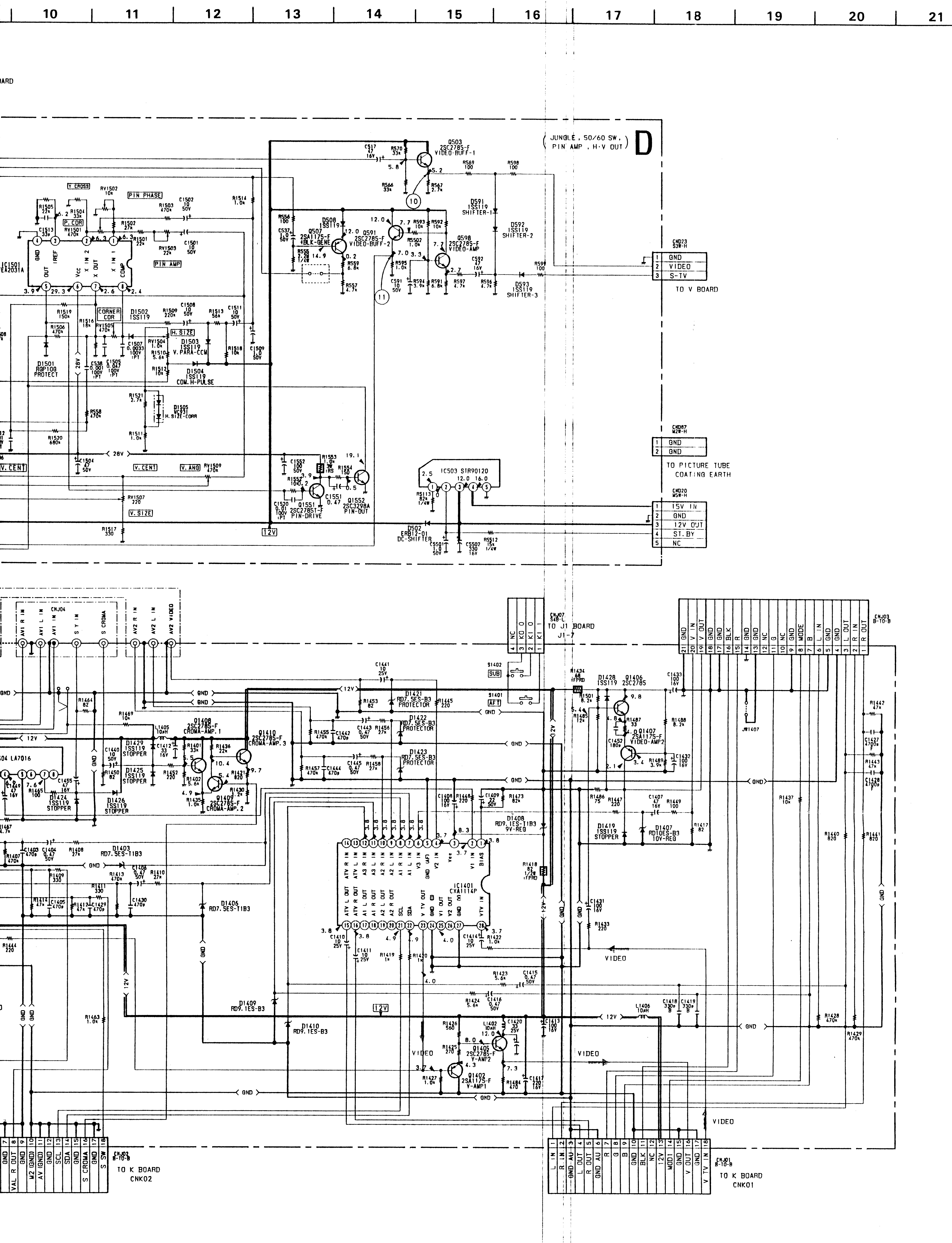


5-8. SCHEMATIC DIAGRAM (3)



TIC DIAGRAM (3)

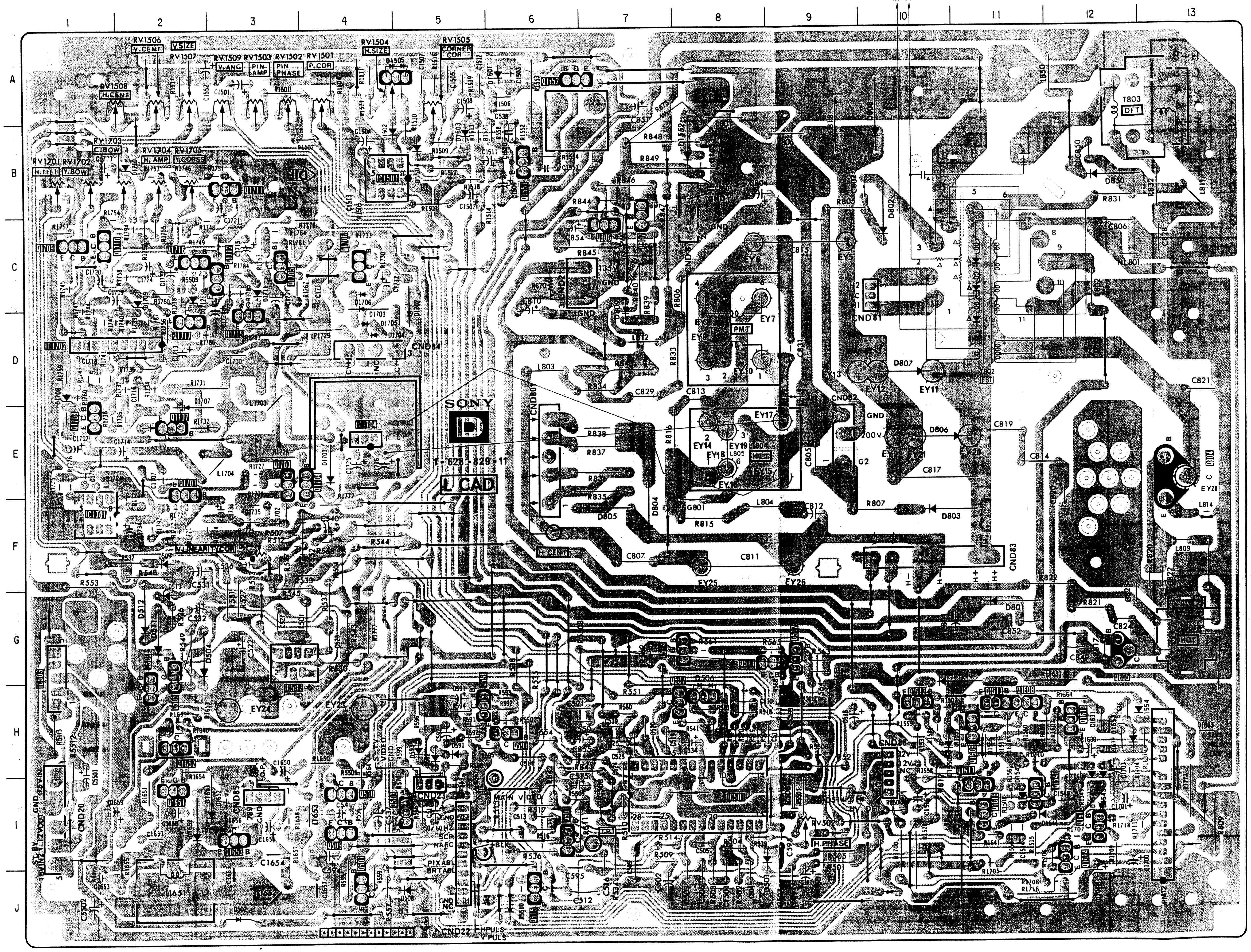




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21
D
(JUNGLE , 50/60 SW, PIN AMP , H·V OUT)
Q503 2SC2785-F VIDEO-BUFF-1
Q507 2SA1175-F BLK-GENE
Q591 2SC2785-F VIDEO-BUFF-2
Q598 2SC2785-F VIDEO-AMP
D591 1SS119 SHIFTER-1
D592 1SS119 SHIFTER-2
D593 1SS119 SHIFTER-3
CN023 S3W-H
GND
VIDEO
S-TV
TO V BOARD
IC1501 TEA2031A
V CROSS
PIN PHASE
P. COR
PIN AMP
CORNER COR
H. SIZE
D1501 RGP100 PROTECT
D1502 1SS119
D1503 1SS119 V. PARA-CCM
D1504 1SS119 COM. H-PULSE
D1505 WC931 H. SIZE-CORR
V. CENT
V. ANG
V. SIZE
Q1551 2SC2785T-F PIN-DRIVE
Q1552 2SC3298A PIN-OUT
IC503 SIR90120
D502 ERB12-01 DC-SHIFTER
CN087 M2W-H
TO PICTURE TUBE COATING EARTH
CN020 M5W-H
15V IN
12V OUT
ST. BY
NC
CN104
AV1 R IN
AV1 L IN
AV1 IN
S Y IN
S CROMA
AV2 R IN
AV2 L IN
AV2 VIDEO
CN107 S4B-L
TO J1 BOARD
J1-7
S1402 SUB
S1401 AFT
Q1408 2SC2785-F CROMA-AMP. 1
Q1410 2SC2785-F CROMA-AMP. 3
Q1409 2SC2785-F CROMA-AMP. 2
D1421 RD7. 5ES-B3 PROTECTOR
D1422 RD7. 5ES-B3 PROTECTOR
D1423 RD7. 5ES-B3 PROTECTOR
D1428 1SS119
Q1406 2SC2785
Q1407 2SA1175-F VIDEO-AMP2
D1429 1SS119 STOPPER
D1425 1SS119 STOPPER
D1424 1SS119 STOPPER
D1426 1SS119 STOPPER
IC1404 LA7016
D1403 RD7. 5ES-T1B3
D1406 RD7. 5ES-T1B3
D1408 RD9. 1ES-T1B3 9V-REG
D1419 1SS119 STOPPER
D1407 RD10ES-B3 10V-REG
IC1401 CXA1114P
CN103 B-10-B
D1409 RD9. 1ES-B3
D1410 RD9. 1ES-B3
Q1405 2SC2785-F V-AMP2
Q1402 2SA1175-F V-AMP1
VIDEO
GND
12V
CN102 B-10-B
TO K BOARD CNK02
CN101 B-10-B
TO K BOARD CNK01

5-9. PRINTED WIRING BOARDS (3) —conductor side— —D Board—

[JUNGLE, 50/60 SW, PIN AMP, H•V OUT] **D** **D**



IC	
IC501	I-8
IC502	G-3
IC503	G-1
IC1501	B-4

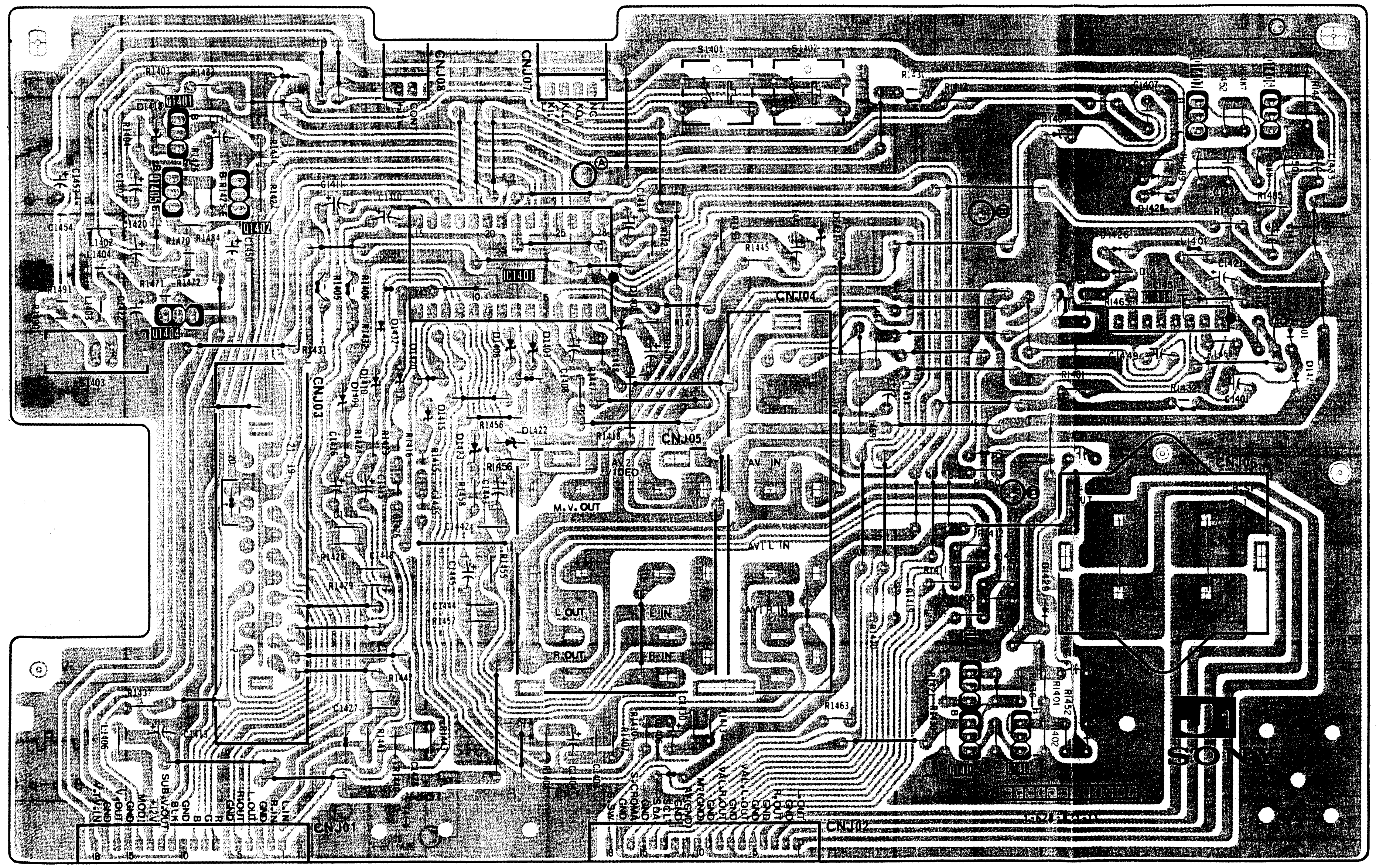
TRANSISTOR	
Q501	I-6
Q502	H-8
Q503	I-5
Q505	G-2
Q506	H-2
Q507	J-4
Q512	G-9
Q515	J-6
Q591	H-6
Q598	H-5
Q804	E-13
Q805	G-12
Q806	C-7
Q807	C-7
Q1551	B-6
Q1552	A-6
Q1608	H-11
Q1609	H-11
Q1610	H-12
Q1613	H-11

DIODE	
D501	I-8
D502	J-3
D504	G-2
D506	H-8
D508	J-5
D509	F-2
D511	G-2
D512	G-2
D513	G-2
D591	H-5
D592	H-5
D593	H-5
D801	G-11
D802	C-10
D803	F-10
D804	F-7
D805	F-7
D806	E-11
D807	D-10
D808	B-10
D809	D-7
D850	B-12
D1501	A-6
D1502	B-5
D1503	B-5
D1504	B-5
D1505	A-5
D1550	H-10
D1552	B-8
D1553	H-12

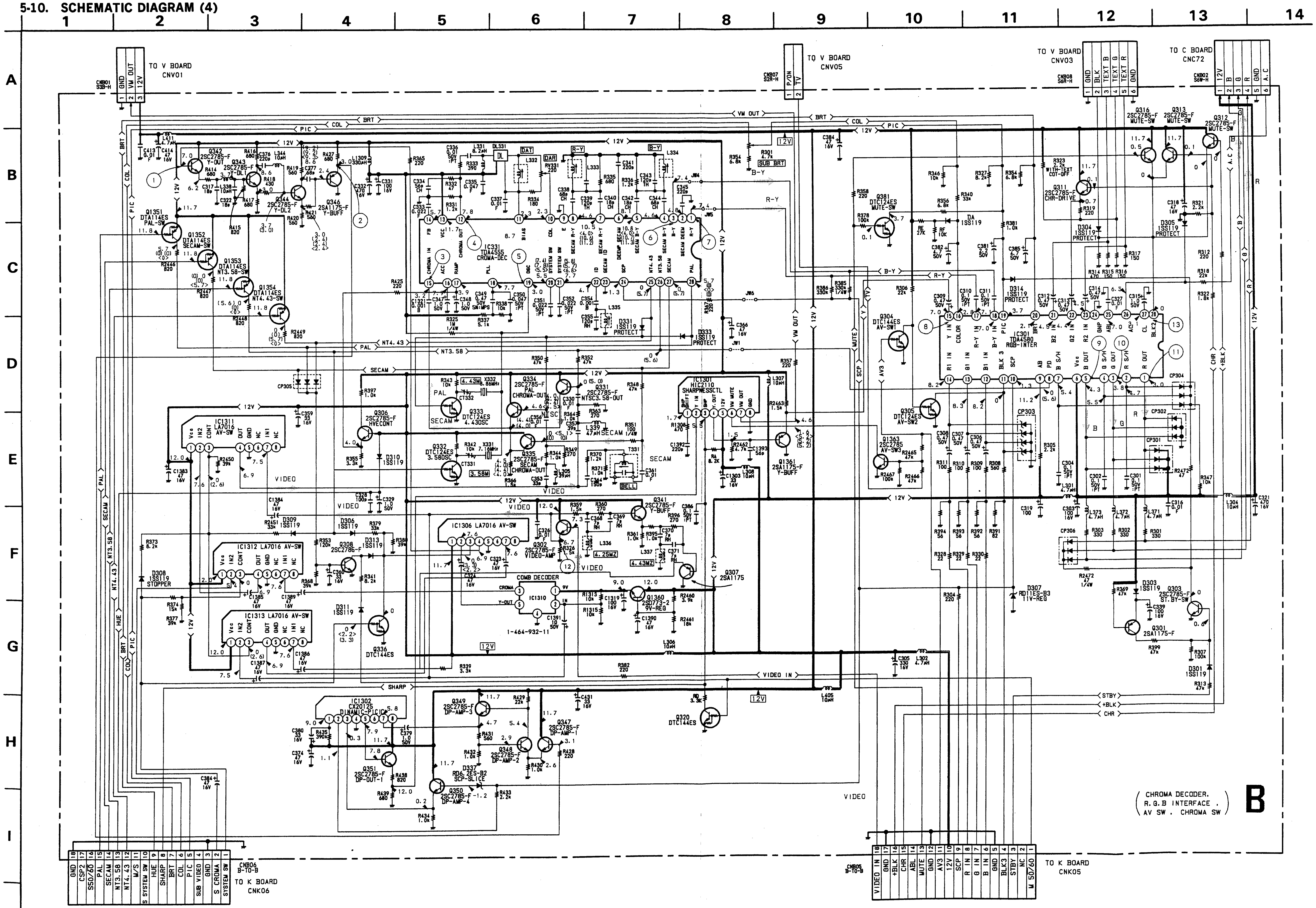
VARIABLE RESISTOR	
RV502	I-9
RV1501	A-4
RV1502	A-3
RV1503	A-3
RV1504	A-5
RV1505	A-5
RV1506	A-2
RV1507	A-2
RV1508	A-2
RV1509	A-3

[AV SW, VIDEO AMP] J1 J1

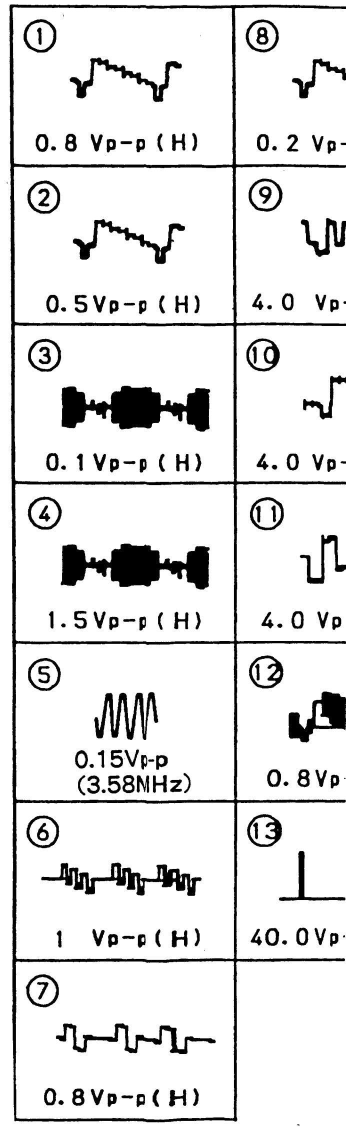
—J1 Board—



5-10. SCHEMATIC DIAGRAM (4)



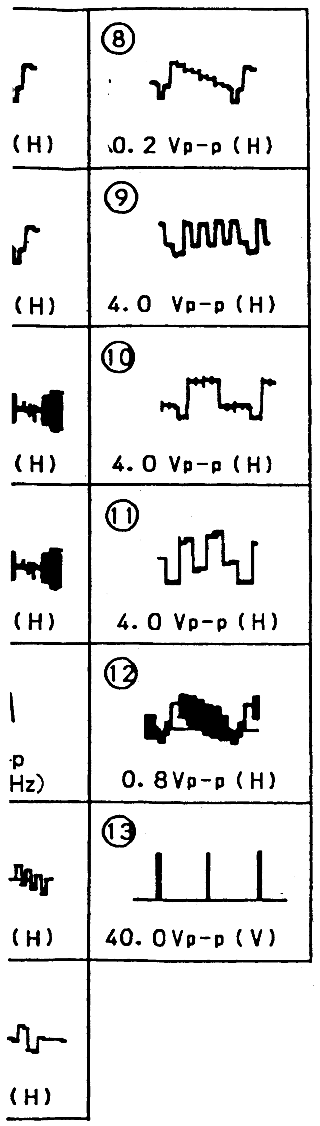
●B BOARD WAVEFORM



[CHROMA DECODER, R•G•B INTEREFACE, AV SW, CHROMA SW.] **B**

5-11. PRINTED WIRING BOARDS (4)
—conductor side—

) WAVEFORM



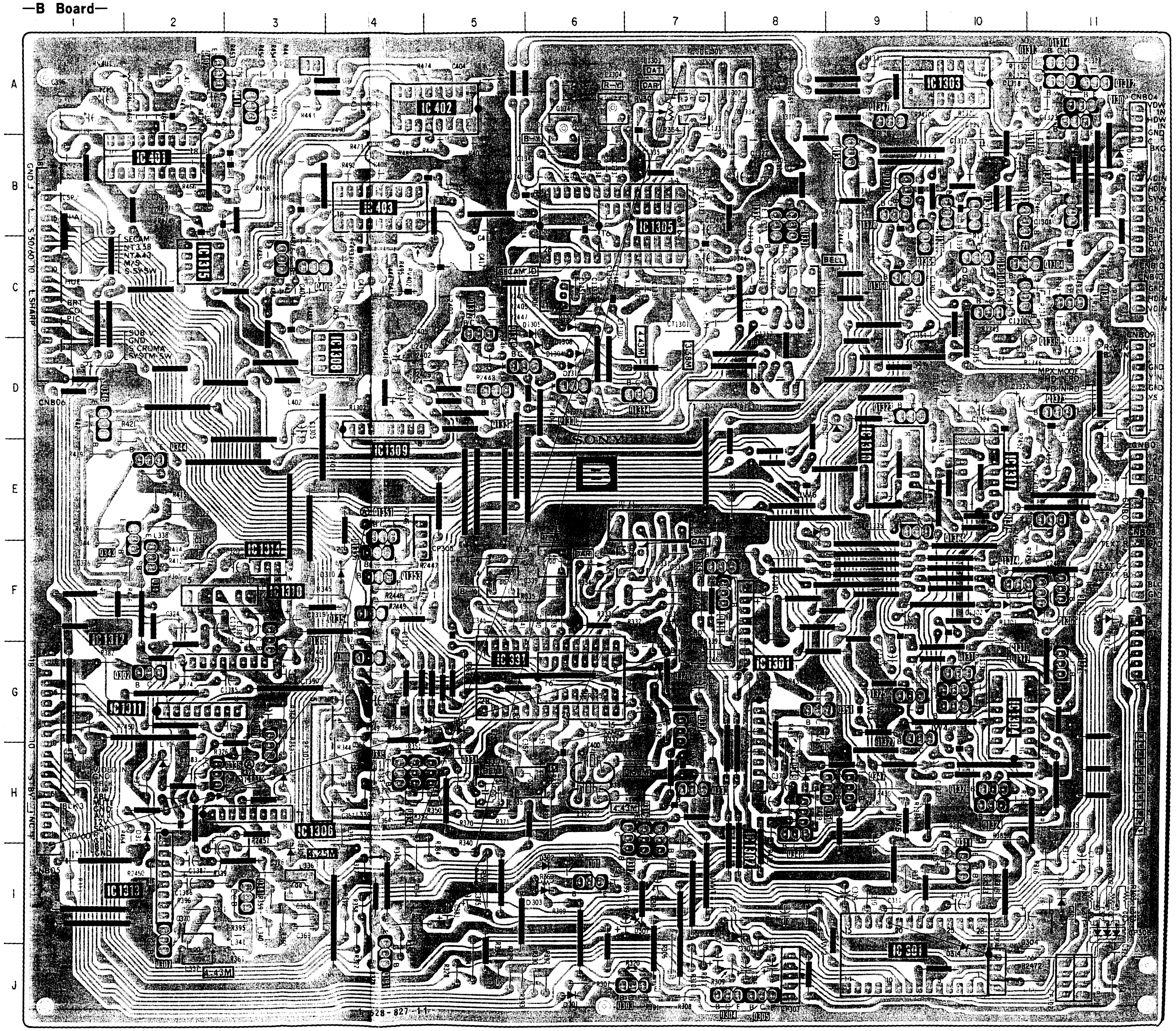
IC	
IC301	J-9
IC331	G-5
IC1301	G-8
IC1302	H-8
IC1306	H-3
IC1310	F-3
IC1311	G-2
IC1312	F-1
IC1313	I-2

TRANSISTOR	
Q301	I-6
Q302	G-2
Q303	J-6
Q304	J-7
Q305	J-8
Q306	G-4
Q307	J-2
Q308	G-3
Q311	I-10
Q312	I-6
Q313	I-7
Q316	H-7
Q320	G-7
Q331	H-5
Q332	G-7
Q333	H-7
Q334	H-4
Q335	H-4
Q336	H-2
Q341	I-3
Q342	F-2
Q343	F-1
Q344	E-2
Q345	F-1
Q346	D-1
Q347	H-9
Q348	H-8
Q349	H-8
Q350	H-8
Q351	G-8
Q381	J-4
Q1351	F-4
Q1352	F-4
Q1353	F-4
Q1354	F-4
Q1360	G-4
Q1361	F-8
Q1363	F-7

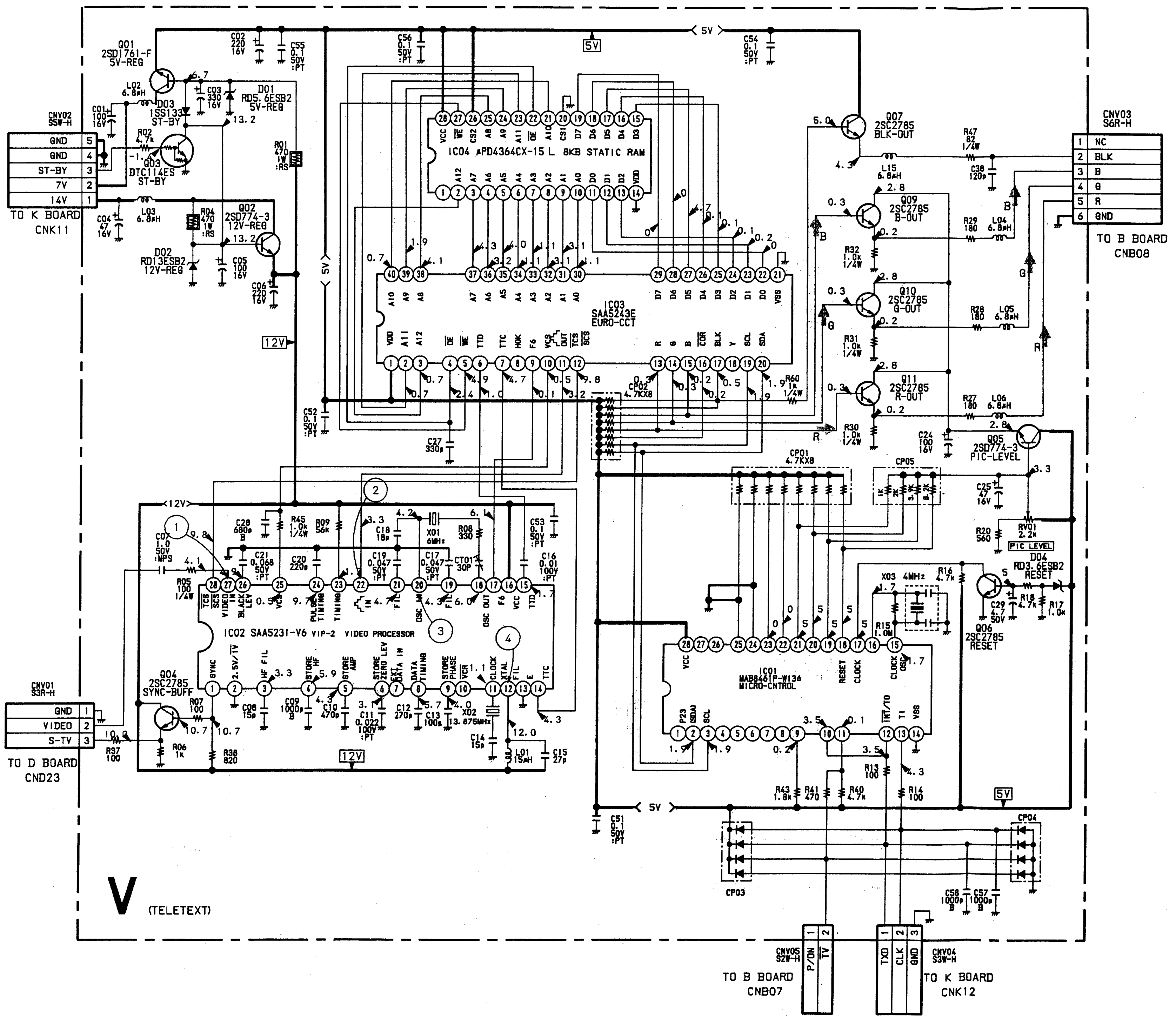
DIODE	
D301	J-6
D302	I-6
D303	I-6
D304	F-11
D305	I-11
D306	H-3
D307	I-6
D308	H-2
D309	I-3
D310	F-4
D311	H-2
D313	H-2
D314	I-10
D331	G-4
D333	G-5
D337	H-8

VARIABLE RESISTOR	
RV301	A-7
RV331	F-6

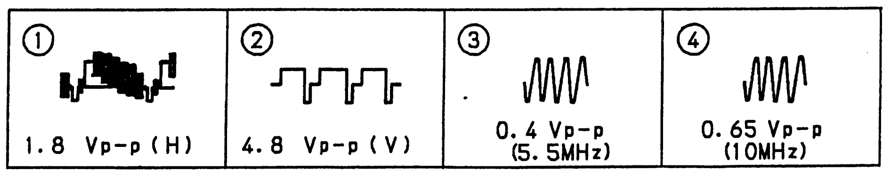
—B Board—



5-12. SCHEMATIC DIAGRAM (5)

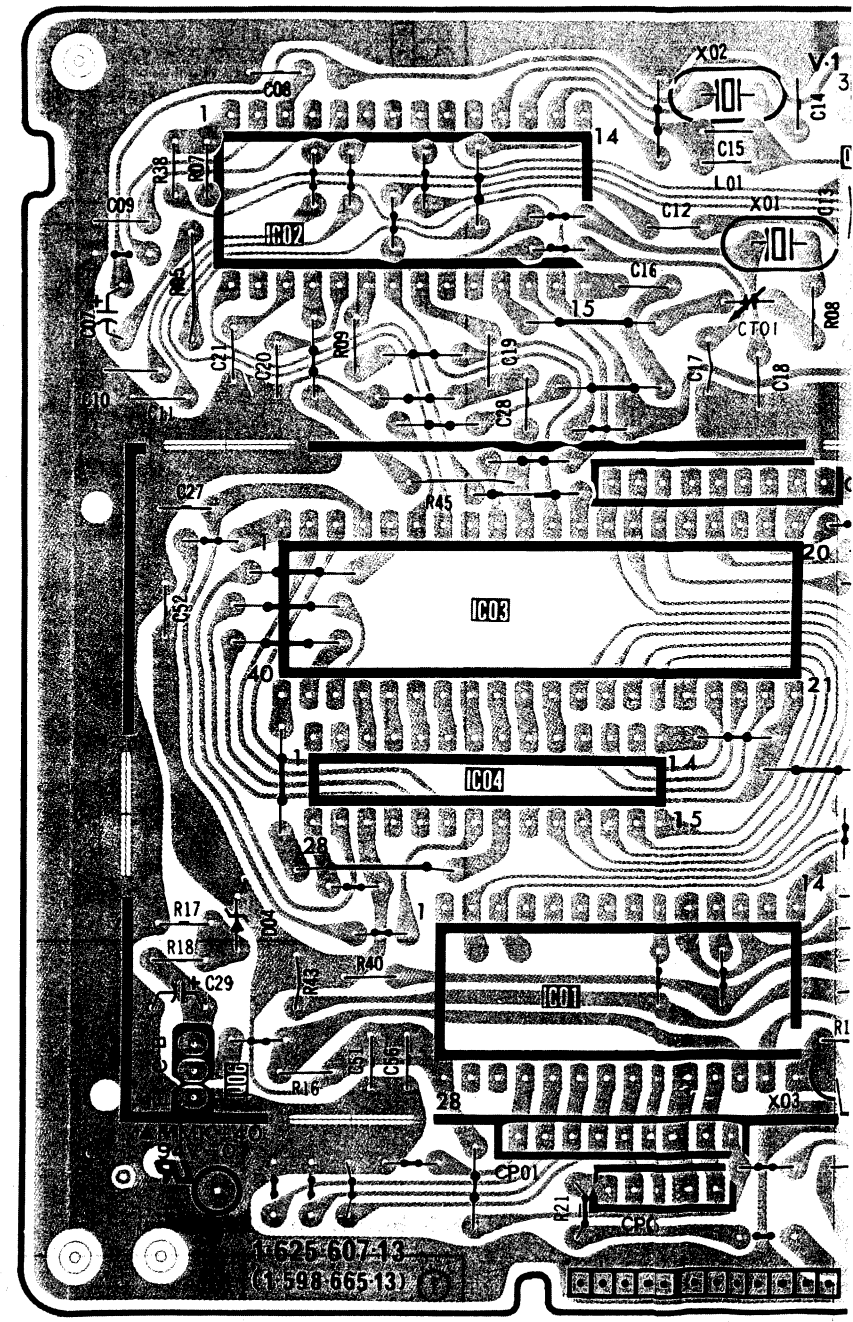


● V BOARD WAVEFORM

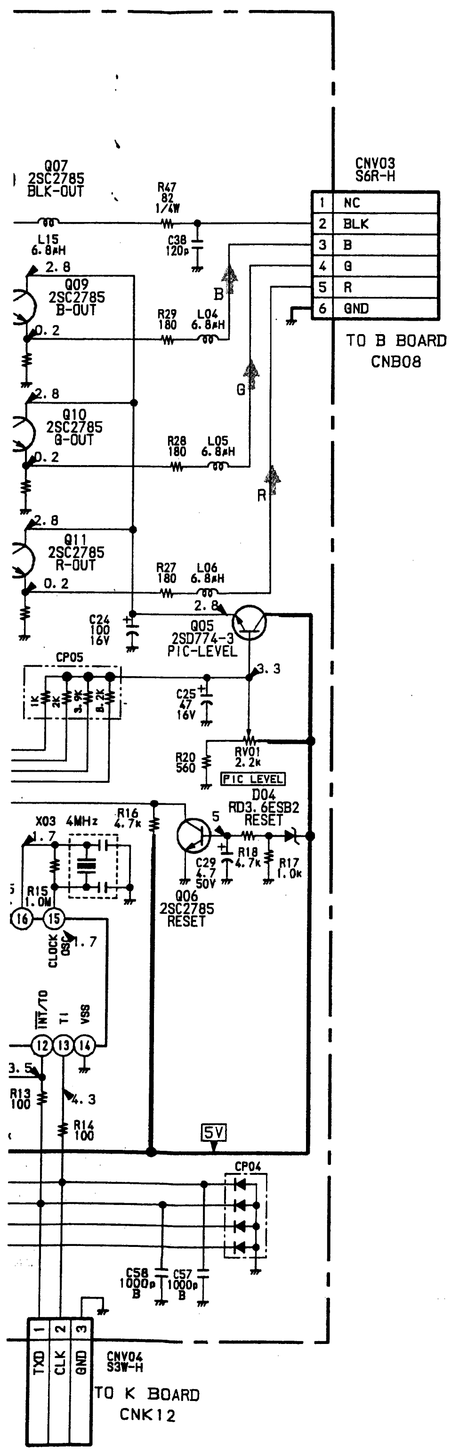


5-13. PRINTED WIRING BOARDS (5) —conductor side—

—V Board—



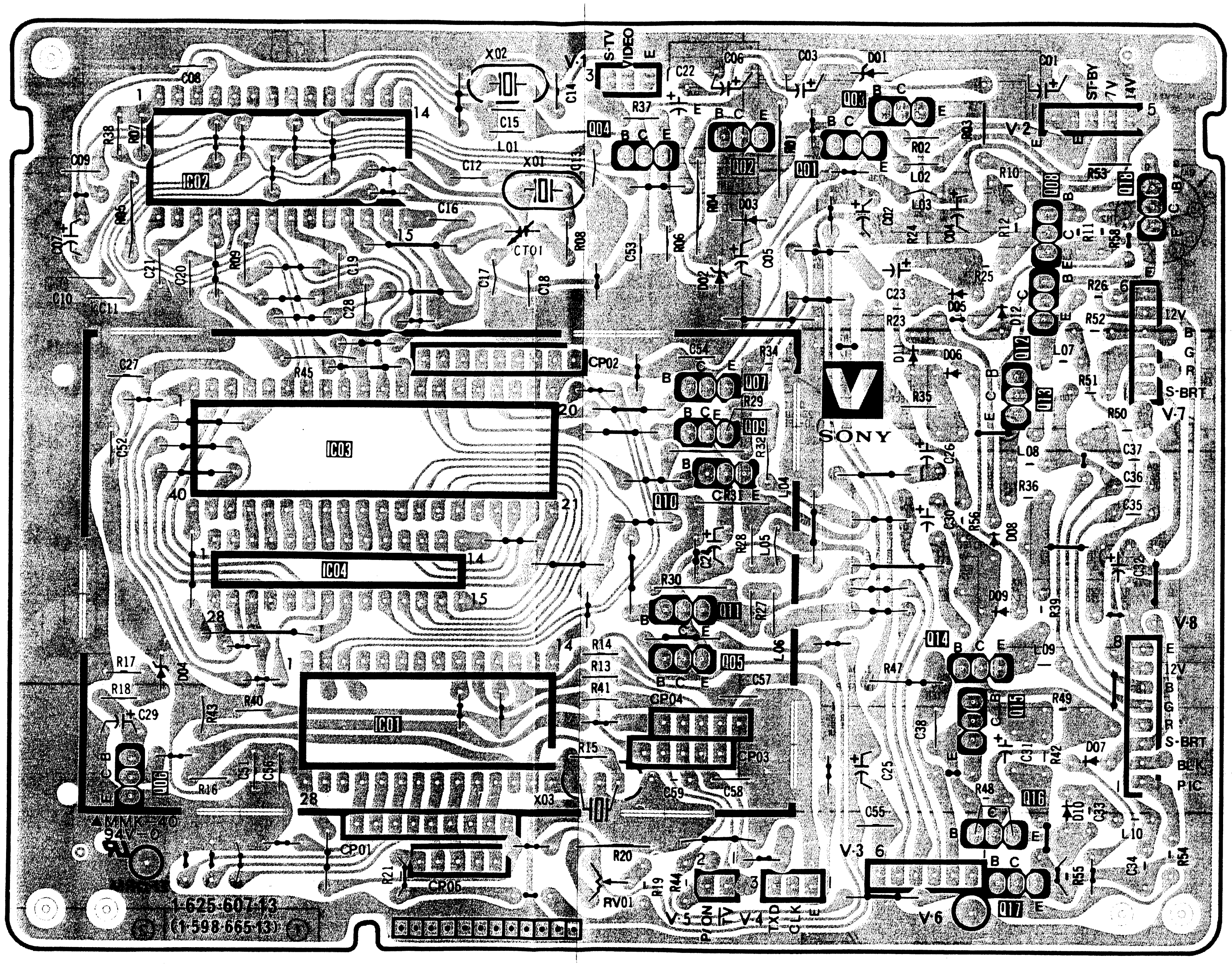
8	9	10



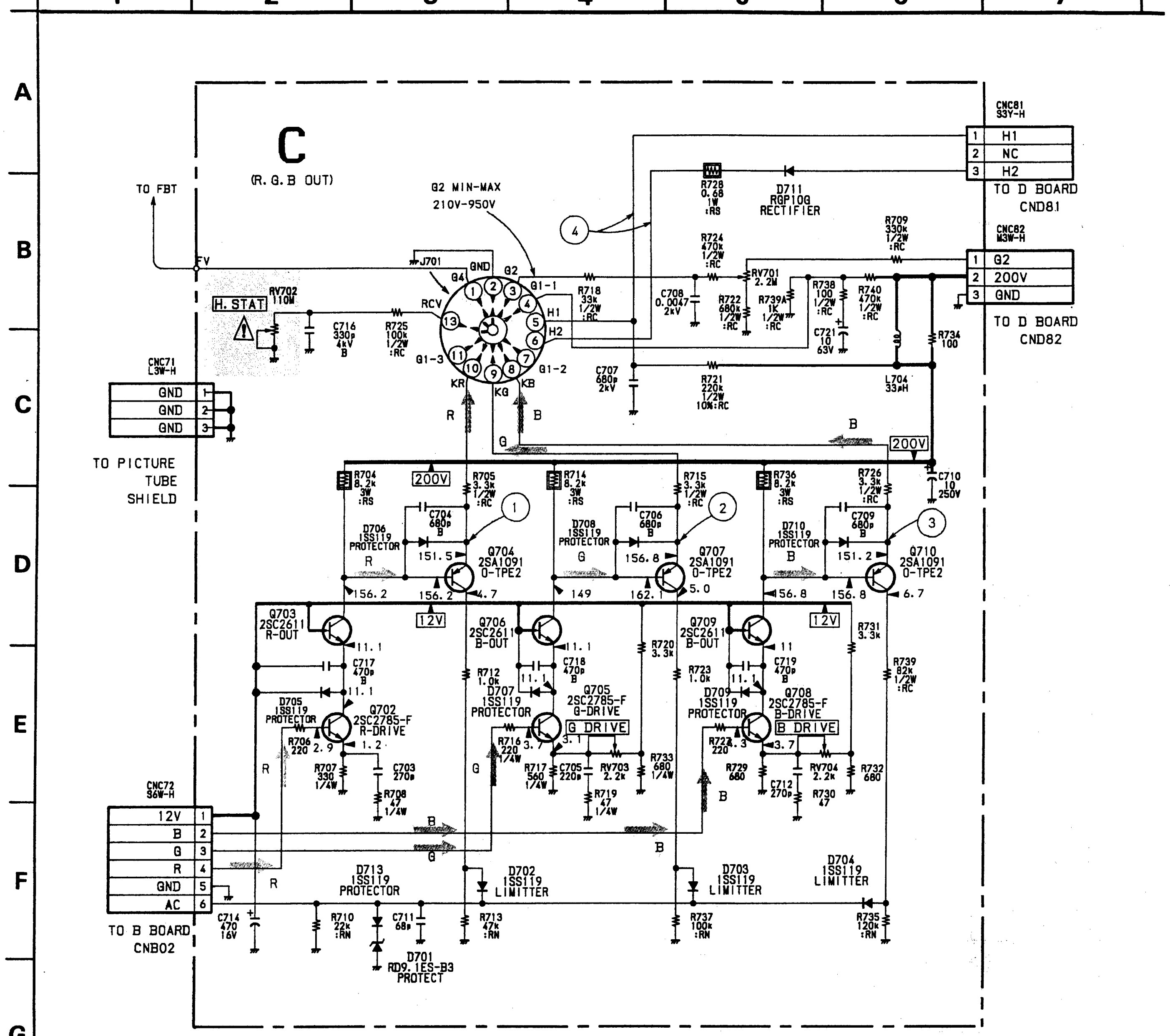
[TELETEX] V V

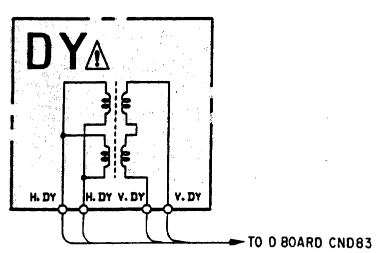
5-13. PRINTED WIRING BOARDS (5) —conductor side—

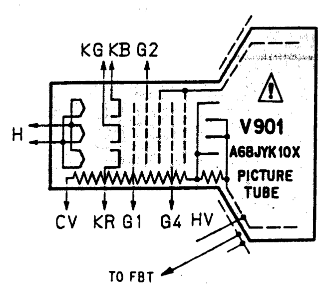
—V Board—



5-14. SCHEMATIC DIAGRAM (6)

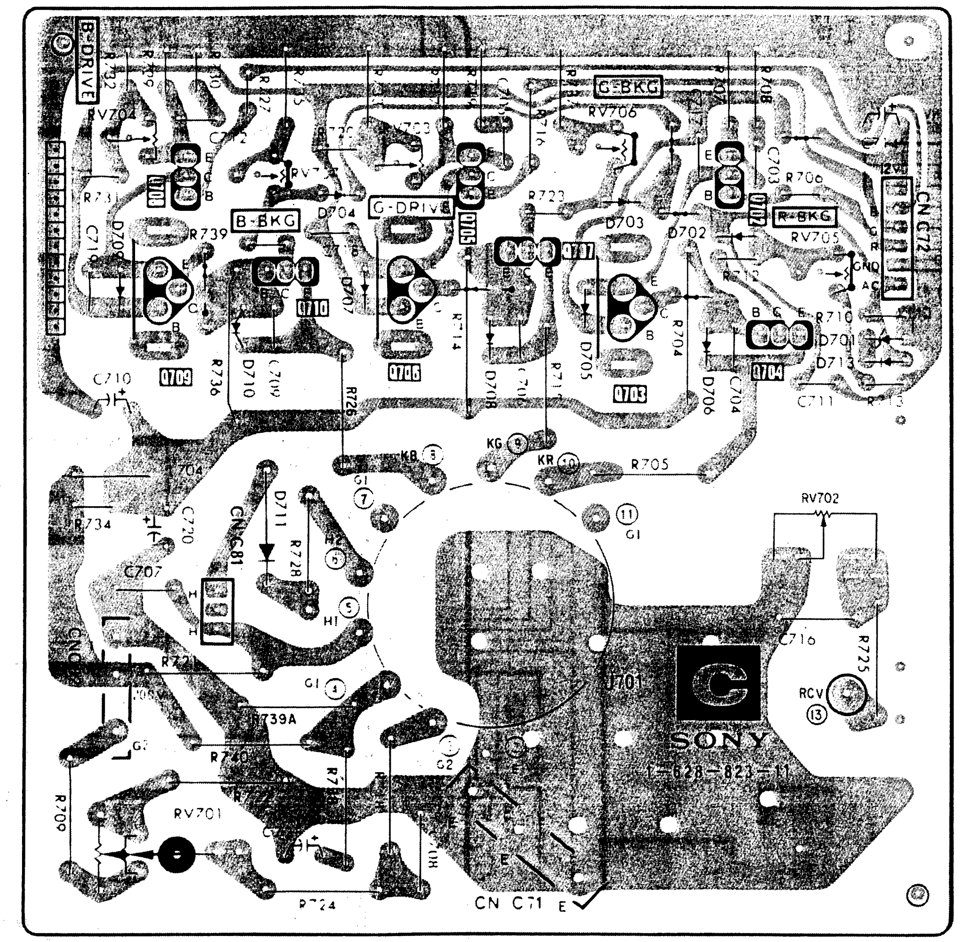




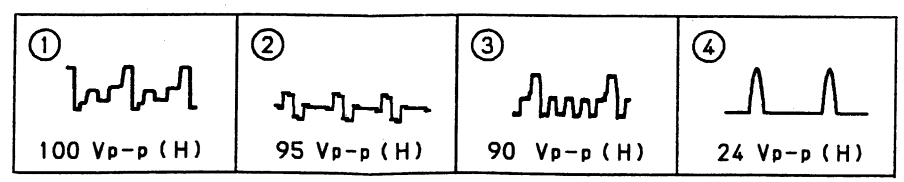


5-15. PRINTED WIRING BOARD (6) —conductor side—

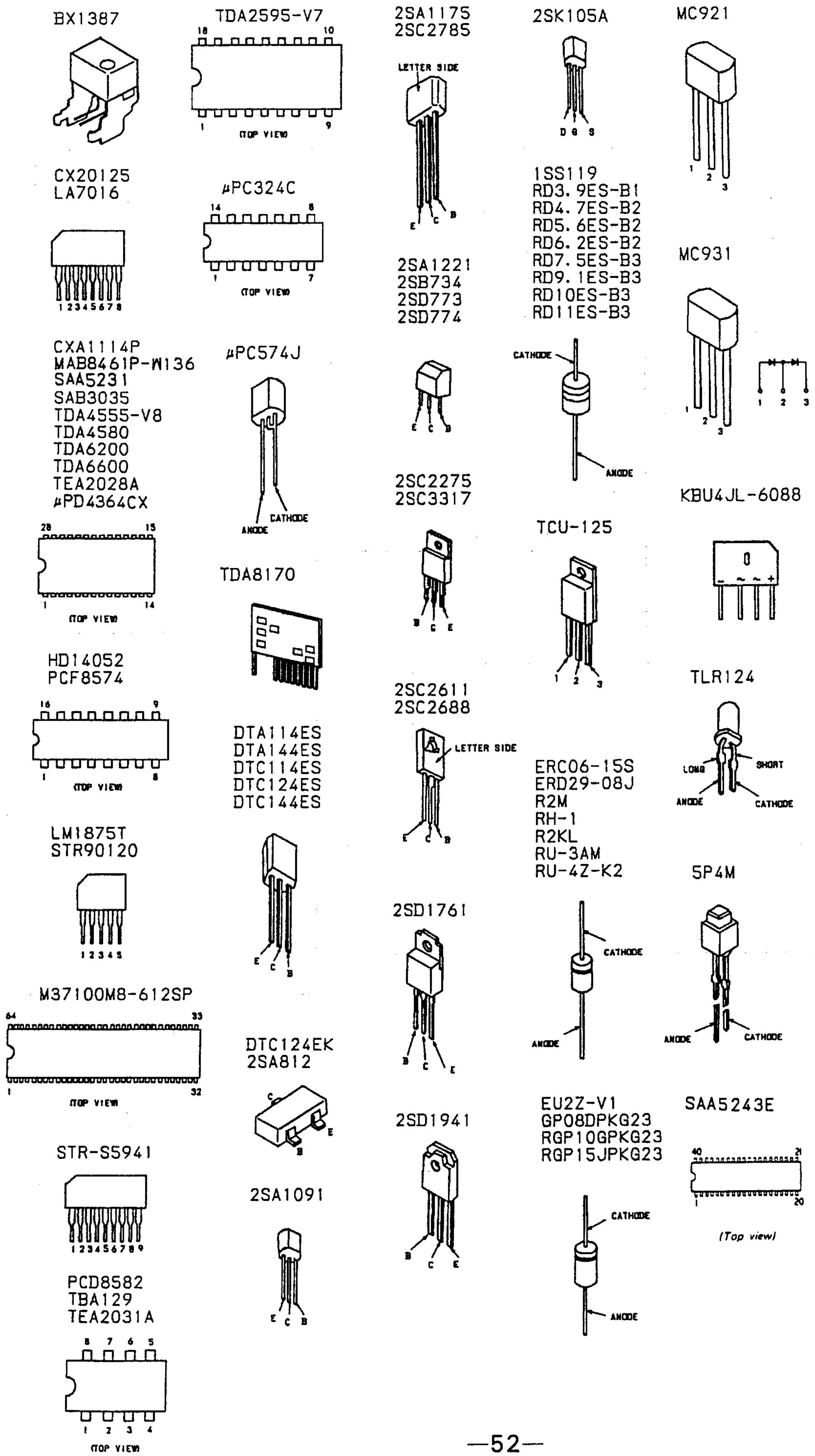
—C Board—



● C BOARD WAVEFORM



5-16. SEMICONDUCTORS



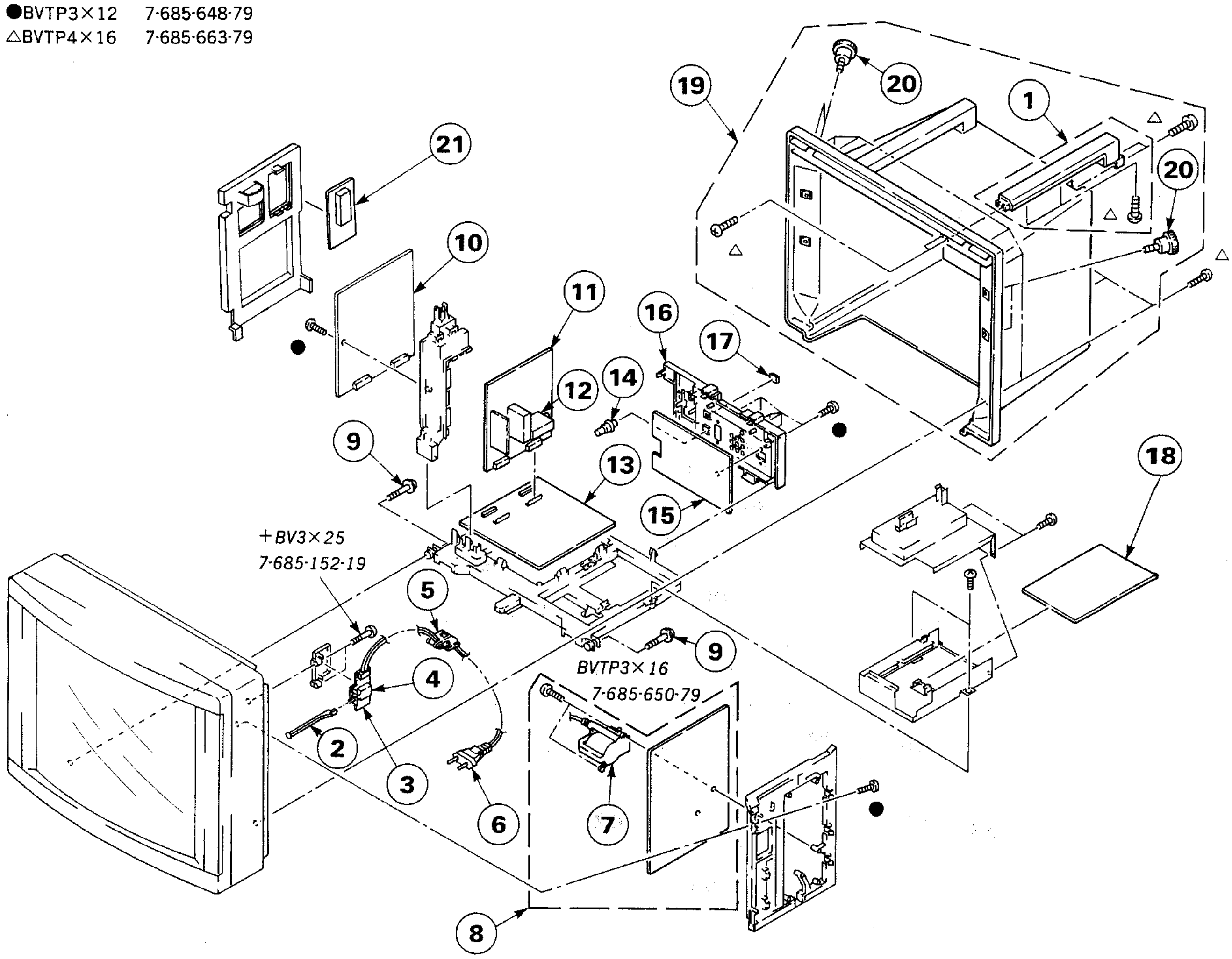
SECTION 6
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

1. CHASSIS

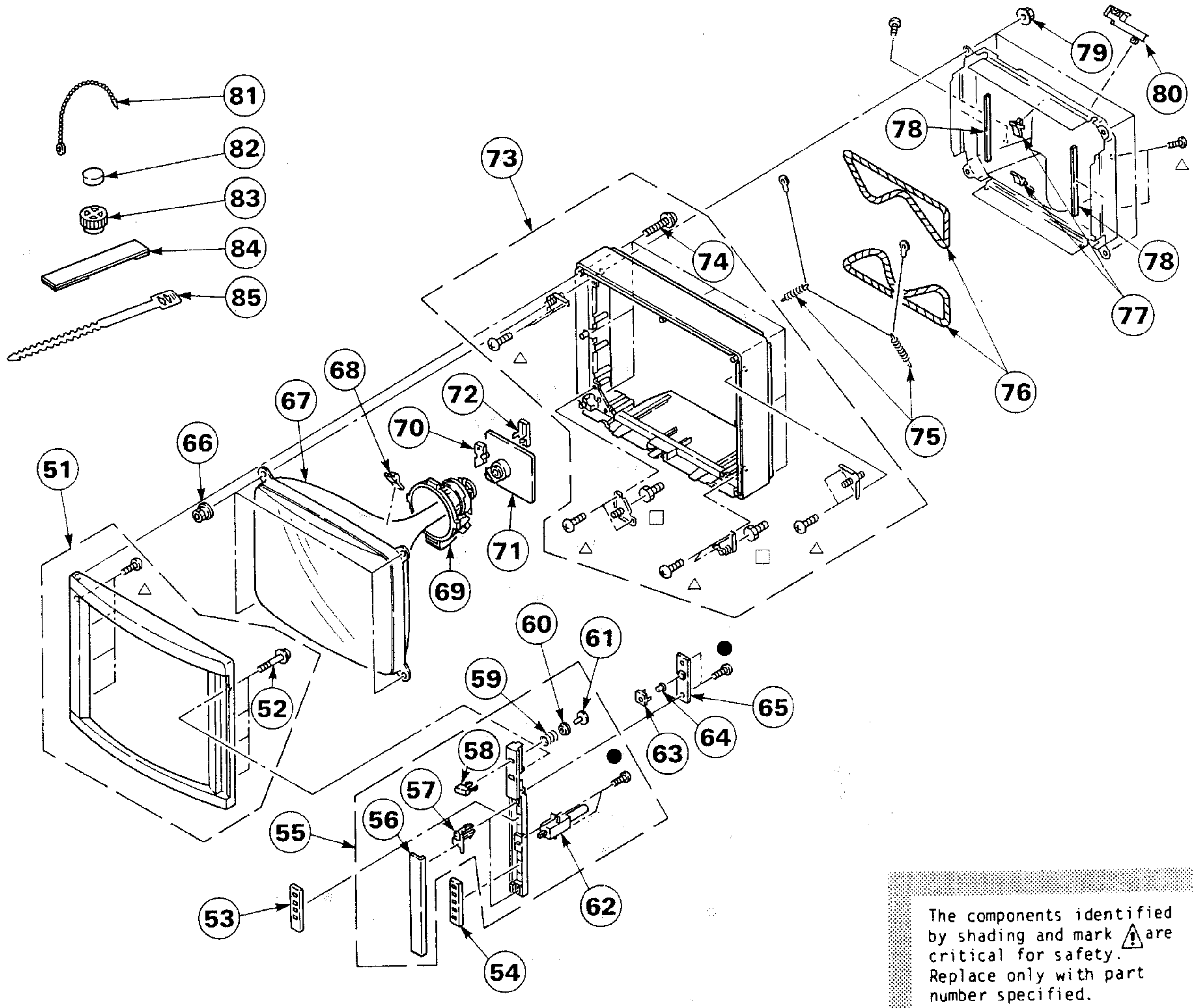
●BVTP3×12 7-685-648-79
△BVTP4×16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4390-706-1	HANDLE ASSY	
2	4-392-405-01	ROD, PUSH	
3	*1-628-825-11	F2 BOARD	
4	⚠1-571-433-11	SWITCH, PUSH (AC POWER)	
5	⚠4-389-778-01	HOLDER, AC CORD	
6	⚠1-574-380-11	CORD, POWER (WITH CONNECTOR)	
7	⚠1-439-418-31	TRANSFORMER ASSY, FLYBACK	
8	*A-1345-814-A	D BOARD, COMPLETE	7
9	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
10	*A-1135-534-A	B BOARD, COMPLETE	
11	*A-1296-521-A	A BOARD, COMPLETE	
12	⚠1-465-109-11	TUNER, ET (UV-618)	
13	*A-1385-049-A	K BOARD, COMPLETE	
14	⚠1-563-204-13	SOCKET, ANTENNA (PAL/SECAM)	
15	*A-1388-083-A	J1 BOARD, COMPLETE	
16	4-392-411-01	BRACKET, J	
17	4-392-418-01	SHEET, BLIND	
18	*A-1245-447-A	F1 BOARD, COMPLETE	
19	X-4392-404-1	COVER ASSY, REAR	1,20
20	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL	
21	*A-1347-036-A	V BOARD, COMPLETE	

2. PICTURE TUBE

●BVTP3×12 7-685-648-79
△BVTP4×16 7-685-663-79
□BOLT, HEXAGON 5×20 7-683-340-07



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4392-406-2	BEZEL ASSY	52
52	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
53	1-466-097-11	PANEL BLOCK	
54	1-466-096-11	PANEL BLOCK	
55	X-4392-402-1	BRACKET ASSY, H	56-62
56	X-4392-407-1	DOOR ASSY, CONTROL	
57	4-350-201-00	SHAFT, DOOR	
58	4-391-709-01	BUTTON, POWER	
59	4-374-257-01	SPRING, COMPRESSION	
60	4-385-404-01	CUSHION, SPRING	
61	4-370-505-01	STOPPER, BUTTON, HIT TERMINAL	
62	4-391-701-01	DAMPER	
63	*4-388-955-01	BRACKET (B), LIGHT GUIDE	
64	*4-374-987-01	GUIDE, LIGHT	
65	*1-628-824-11	H3 BOARD	
66	4-376-980-01	NUT, SPECIAL, CRT	
67	⚠8-733-821-05	PICTURE TUBE (A68JYK10X)	
68	3-703-961-01	SPACER, DY	
69	⚠1-451-313-12	DEFLECTION YOKE (SY-191)	
70	*4-379-167-01	COVER (MAIN), CV	
71	*A-1330-914-A	C BOARD, COMPLETE	
72	*4-379-160-01	COVER (REAR LID), CV	
73	X-4391-703-3	CABINET ASSY	74
74	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
75	4-369-318-00	SPRING, TENSION	
76	⚠1-426-408-11	COIL, DEMAGNETIZATION	
77	*4-371-629-01	STOPPER, WIRE	
78	*4-915-938-01	CUSHION (D)	
79	4-306-034-00	FLANGE NUT, (B) 5MM	
80	*4-387-216-01	HOLDER, LEAD	
81	4-308-870-00	CLIP, LEAD WIRE	
82	1-452-032-00	MAGNET, DISK; 10MM ϕ	
83	1-452-094-00	MAGNET, ROTATABLE DISK; 10MM ϕ	
84	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
85	3-701-007-00	BAND, BINDING	

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1135-534-A	B BOARD, COMPLETE				
		*****************				
		<CAPACITOR>				
C301	1-136-165-00	MYLAR	0.1MF	10%	50V	
C302	1-136-165-00	MYLAR	0.1MF	10%	50V	
C303	1-126-101-11	ELECT	100MF	20%	16V	
C304	1-136-165-00	MYLAR	0.1MF	10%	50V	
C305	1-124-119-00	ELECT	330MF	20%	16V	
C306	1-124-902-00	ELECT	0.47MF	20%	50V	
C307	1-124-902-00	ELECT	0.47MF	20%	50V	
C308	1-124-902-00	ELECT	0.47MF	20%	50V	
C309	1-124-902-00	ELECT	0.47MF	20%	50V	
C310	1-136-165-00	MYLAR	0.1MF	10%	50V	
C311	1-136-165-00	MYLAR	0.1MF	10%	50V	
C312	1-124-902-00	ELECT	0.47MF	20%	50V	
C313	1-124-902-00	ELECT	0.47MF	20%	50V	
C314	1-124-902-00	ELECT	0.47MF	20%	50V	
C315	1-124-499-11	ELECT	1MF	20%	50V	
C316	1-101-004-00	CERAMIC	0.01MF		50V	
C317	1-102-953-00	CERAMIC	18PF	5%	50V	
C318	1-124-477-11	ELECT	47MF	20%	16V	
C319	1-126-101-11	ELECT	100MF	20%	16V	
C321	1-126-103-11	ELECT	470MF	20%	16V	
C322	1-102-953-00	CERAMIC	18PF	5%	50V	
C323	1-124-477-11	ELECT	47MF	20%	16V	
C324	1-124-477-11	ELECT	47MF	20%	16V	
C326	1-101-004-00	CERAMIC	0.01MF		50V	
C327	1-101-004-00	CERAMIC	0.01MF		50V	
C328	1-102-973-00	CERAMIC	100PF	5%	50V	
C329	1-124-499-11	ELECT	1MF	20%	50V	
C330	1-101-004-00	CERAMIC	0.01MF		50V	
C331	1-126-101-11	ELECT	100MF	20%	16V	
C332	1-124-360-00	ELECT	1000MF	20%	16V	
C333	1-101-005-00	CERAMIC	0.022MF		50V	
C334	1-101-884-00	CERAMIC	56PF	5%	50V	
C335	1-101-006-00	CERAMIC	0.047MF		50V	
C336	1-136-153-00	MYLAR	0.01MF	10%	50V	
C337	1-101-004-00	CERAMIC	0.01MF		50V	
C338	1-101-888-00	CERAMIC	68PF	5%	50V	
C339	1-102-816-00	CERAMIC	120PF	5%	50V	
C340	1-102-953-00	CERAMIC	18PF	5%	50V	
C341	1-102-978-00	CERAMIC	220PF	5%	50V	
C342	1-102-953-00	CERAMIC	18PF	5%	50V	
C343	1-102-816-00	CERAMIC	120PF	5%	50V	
C344	1-101-888-00	CERAMIC	68PF	5%	50V	
C345	1-102-978-00	CERAMIC	220PF	5%	50V	
C347	1-124-499-11	ELECT	1MF	20%	50V	
C348	1-124-499-11	ELECT	1MF	20%	50V	
C349	1-136-173-00	FILM	0.47MF	5%	50V	
C350	1-136-161-00	MYLAR	0.047MF	10%	50V	
C351	1-136-157-00	MYLAR	0.022MF	10%	50V	
C352	1-136-157-00	MYLAR	0.022MF	10%	50V	
C353	1-102-963-00	CERAMIC	33PF	5%	50V	
C354	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C355	1-102-816-00	CERAMIC	120PF	5%	50V	
C356	1-101-004-00	CERAMIC	0.01MF		50V	
C357	1-102-965-00	CERAMIC	39PF	5%	50V	
C359	1-124-963-11	ELECT	33MF	20%	16V	
C360	1-124-963-11	ELECT	33MF	20%	16V	
C361	1-101-004-00	CERAMIC	0.01MF		50V	
C364	1-101-361-00	CERAMIC	150PF	5%	50V	
C366	1-124-360-00	ELECT	1000MF	20%	16V	
C368	1-102-944-00	CERAMIC	7PF	0.5PF	50V	
C369	1-102-944-00	CERAMIC	7PF	0.5PF	50V	
C370	1-102-944-00	CERAMIC	7PF	0.5PF	50V	
C371	1-102-944-00	CERAMIC	7PF	0.5PF	50V	
C374	1-124-477-11	ELECT	47MF	20%	16V	
C376	1-102-978-00	CERAMIC	220PF	5%	50V	
C377	1-101-888-00	CERAMIC	68PF	5%	50V	
C379	1-124-499-11	ELECT	1MF	20%	50V	
C380	1-124-963-11	ELECT	33MF	20%	16V	
C381	1-124-925-11	ELECT	2.2MF	20%	50V	
C382	1-124-927-11	ELECT	4.7MF	20%	50V	
C384	1-124-477-11	ELECT	47MF	20%	16V	
C385	1-124-927-11	ELECT	4.7MF	20%	50V	
C386	1-136-165-00	MYLAR	0.1MF	10%	50V	
C398	1-101-004-00	CERAMIC	0.01MF		50V	
C399	1-126-101-11	ELECT	100MF	20%	16V	
C413	1-101-004-00	CERAMIC	0.01MF		50V	
C414	1-124-477-11	ELECT	47MF	20%	16V	
C431	1-124-963-11	ELECT	33MF	20%	16V	
C1303	1-124-963-11	ELECT	33MF	20%	16V	
C1319	1-126-101-11	ELECT	100MF	20%	16V	
C1321	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C1383	1-124-477-11	ELECT	47MF	20%	16V	
C1384	1-124-477-11	ELECT	47MF	20%	16V	
C1385	1-124-477-11	ELECT	47MF	20%	16V	
C1386	1-124-477-11	ELECT	47MF	20%	16V	
C1387	1-124-477-11	ELECT	47MF	20%	16V	
C1389	1-124-477-11	ELECT	47MF	20%	16V	
C1390	1-124-477-11	ELECT	47MF	20%	16V	
C1391	1-123-875-11	ELECT	10MF	20%	50V	
C1392	1-102-978-00	CERAMIC	220PF	5%	50V	
C1393	1-101-884-00	CERAMIC	56PF	5%	50V	
		<CONNECTOR>				
CNB01	*1-564-506-11	PLUG, CONNECTOR 3P				
CNB02	*1-564-509-11	PLUG, CONNECTOR 6P				
CNB05	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P				

B

REF.NO.	PART NO.	DESCRIPTION				REMARK
CNB06	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P				
CNB07	*1-564-505-11	PLUG, CONNECTOR 2P				
CNB08	*1-564-509-11	PLUG, CONNECTOR 6P				
		<TRIMMER>				
CT331	1-141-181-11	CAP, TRIMMER				
CT332	1-141-181-11	CAP, TRIMMER				
		<DIODE>				
D301	8-719-911-19	DIODE 1SS119				
D303	8-719-911-19	DIODE 1SS119				
D304	8-719-911-19	DIODE 1SS119				
D305	8-719-911-19	DIODE 1SS119				
D306	8-719-911-19	DIODE 1SS119				
D307	8-719-110-23	DIODE RD11ES-B3				
D308	8-719-911-19	DIODE 1SS119				
D309	8-719-911-19	DIODE 1SS119				
D310	8-719-911-19	DIODE 1SS119				
D311	8-719-911-19	DIODE 1SS119				
D313	8-719-911-19	DIODE 1SS119				
D314	8-719-911-19	DIODE 1SS119				
D331	8-719-911-19	DIODE 1SS119				
D333	8-719-911-19	DIODE 1SS119				
D337	8-719-109-93	DIODE RD6.2ES-B2				
DA	8-719-911-19	DIODE 1SS119				
		<DELAY LINE>				
DL331	1-415-122-31	DELAY LINE, 1H (PAL)				
		<IC>				
IC301	8-759-923-81	IC TDA4580				
IC331	8-759-947-20	IC TDA4555-V8				
IC1301	1-235-534-11	CONTROL MODULE, PICTURE				
IC1302	8-759-913-11	IC CX20125				
IC1306	8-759-800-81	IC LA7016				
IC1310	1-464-932-11	FILTER BLOCK, COM (CFB-3)				
IC1311	8-759-800-81	IC LA7016				
IC1312	8-759-800-81	IC LA7016				
IC1313	8-759-800-81	IC LA7016				
		<COIL>				
L301	1-410-466-41	INDUCTOR	4.7UH			
L302	1-410-466-41	INDUCTOR	4.7UH			
L304	1-410-470-11	INDUCTOR	10UH			
L305	1-408-416-00	INDUCTOR	39UH			
L306	1-410-470-11	INDUCTOR	10UH			
L307	1-410-470-11	INDUCTOR	10UH			
L308	1-410-470-11	INDUCTOR	10UH			
L331	1-408-408-00	INDUCTOR	8.2UH			
L332	1-404-539-11	COIL				
L333	1-404-554-11	COIL				
L334	1-404-554-11	COIL				
L335	1-404-554-11	COIL				
L336	1-404-495-00	COIL				
L337	1-404-495-00	COIL				
L338	1-410-470-11	INDUCTOR	10UH			
L339	1-410-478-11	INDUCTOR	47UH			
L344	1-410-470-11	INDUCTOR	10UH			
L371	1-410-466-41	INDUCTOR	4.7UH			
L372	1-410-466-41	INDUCTOR	4.7UH			
L373	1-410-466-41	INDUCTOR	4.7UH			
L405	1-410-470-11	INDUCTOR	10UH			
L411	1-410-466-41	INDUCTOR	4.7UH			
L1309	1-408-427-00	INDUCTOR	330UH			
		<TRANSISTOR>				
Q301	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q302	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q303	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q304	8-729-900-89	TRANSISTOR DTC144ES				
Q305	8-729-900-36	TRANSISTOR DTC124ES				
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q307	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q311	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q312	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q313	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q316	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q320	8-729-900-89	TRANSISTOR DTC144ES				
Q331	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q332	8-729-900-36	TRANSISTOR DTC124ES				
Q333	8-729-900-36	TRANSISTOR DTC124ES				
Q334	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q335	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q336	8-729-900-89	TRANSISTOR DTC144ES				
Q341	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q342	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q343	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q344	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q346	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q347	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q348	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q349	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q350	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q351	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q381	8-729-900-36	TRANSISTOR DTC124ES				
Q1351	8-729-900-61	TRANSISTOR DTA114ES				
Q1352	8-729-900-61	TRANSISTOR DTA114ES				
Q1353	8-729-900-61	TRANSISTOR DTA114ES				
Q1354	8-729-900-61	TRANSISTOR DTA114ES				
Q1360	8-729-177-32	TRANSISTOR 2SD773				
Q1361	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q1363	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R301	1-249-411-11	CARBON	330	5%	1/4W	
R302	1-249-411-11	CARBON	330	5%	1/4W	
R303	1-249-411-11	CARBON	330	5%	1/4W	
R304	1-247-704-11	CARBON	220	5%	1/4W	
R305	1-249-421-11	CARBON	2.2K	5%	1/4W	
R306	1-249-462-11	CARBON	22K	5%	1/4W	
R307	1-249-441-11	CARBON	100K	5%	1/4W	
R308	1-249-414-11	CARBON	560	5%	1/4W	
R309	1-249-405-11	CARBON	100	5%	1/4W	
R310	1-249-405-11	CARBON	100	5%	1/4W	
R311	1-249-405-11	CARBON	100	5%	1/4W	
R312	1-249-409-11	CARBON	220	5%	1/4W	
R313	1-249-437-11	CARBON	47K	5%	1/4W	
R314	1-249-413-11	CARBON	470	5%	1/4W	
R315	1-247-702-11	CARBON	150	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R316	1-249-407-11	CARBON	150	5%	1/4W	
R317	1-249-407-11	CARBON	150	5%	1/4W	
R318	1-249-433-11	CARBON	22K	5%	1/4W	
R319	1-247-704-11	CARBON	220	5%	1/4W	
R321	1-249-421-11	CARBON	2.2K	5%	1/4W	
R322	1-249-420-11	CARBON	1.8K	5%	1/4W	
R323	1-247-717-11	CARBON	2.2K	5%	1/4W	
R325	1-246-545-00	CARBON	1M	5%	1/4W	
R326	1-249-419-11	CARBON	1.5K	5%	1/4W	
R327	1-249-428-11	CARBON	8.2K	5%	1/4W	
R328	1-249-397-11	CARBON	22	5%	1/4W	
R329	1-249-397-11	CARBON	22	5%	1/4W	
R330	1-249-397-11	CARBON	22	5%	1/4W	
R331	1-249-418-11	CARBON	1.2K	5%	1/4W	
R332	1-249-401-11	CARBON	47	5%	1/4W	
R333	1-249-412-11	CARBON	390	5%	1/4W	
R334	1-249-408-11	CARBON	180	5%	1/4W	
R335	1-249-415-11	CARBON	680	5%	1/4W	
R336	1-249-418-11	CARBON	1.2K	5%	1/4W	
R337	1-247-148-00	CARBON	5.1K	5%	1/4W	
R338	1-249-429-11	CARBON	10K	5%	1/4W	
R339	1-249-423-11	CARBON	3.3K	5%	1/4W	
R340	1-249-435-11	CARBON	33K	5%	1/4W	
R341	1-249-428-11	CARBON	8.2K	5%	1/4W	
R342	1-249-429-11	CARBON	10K	5%	1/4W	
R343	1-249-429-11	CARBON	10K	5%	1/4W	
R344	1-249-417-11	CARBON	1K	5%	1/4W	
R345	1-247-887-00	CARBON	220K	5%	1/4W	
R346	1-249-429-11	CARBON	10K	5%	1/4W	
R347	1-249-429-11	CARBON	10K	5%	1/4W	
R348	1-249-437-11	CARBON	47K	5%	1/4W	
R349	1-249-410-11	CARBON	270	5%	1/4W	
R350	1-249-437-11	CARBON	47K	5%	1/4W	
R351	1-247-700-11	CARBON	100	5%	1/4W	
R352	1-249-437-11	CARBON	47K	5%	1/4W	
R353	1-247-881-00	CARBON	120K	5%	1/4W	
R354	1-247-723-11	CARBON	6.8K	5%	1/4W	
R355	1-249-423-11	CARBON	3.3K	5%	1/4W	
R356	1-249-427-11	CARBON	6.8K	5%	1/4W	
R357	1-247-704-11	CARBON	220	5%	1/4W	
R358	1-249-409-11	CARBON	220	5%	1/4W	
R359	1-249-419-11	CARBON	1.5K	5%	1/4W	
R360	1-249-410-11	CARBON	270	5%	1/4W	
R361	1-249-417-11	CARBON	1K	5%	1/4W	
R363	1-249-410-11	CARBON	270	5%	1/4W	
R364	1-249-417-11	CARBON	1K	5%	1/4W	
R365	1-249-409-11	CARBON	220	5%	1/4W	
R366	1-249-419-11	CARBON	1.5K	5%	1/4W	
R367	1-247-704-11	CARBON	220	5%	1/4W	
R368	1-249-436-11	CARBON	39K	5%	1/4W	
R369	1-249-425-11	CARBON	4.7K	5%	1/4W	
R370	1-249-418-11	CARBON	1.2K	5%	1/4W	
R371	1-249-417-11	CARBON	1K	5%	1/4W	
R373	1-249-428-11	CARBON	8.2K	5%	1/4W	
R374	1-249-431-11	CARBON	15K	5%	1/4W	
R377	1-249-436-11	CARBON	39K	5%	1/4W	
R378	1-249-441-11	CARBON	100K	5%	1/4W	
R379	1-247-726-11	CARBON	33K	5%	1/4W	
R380	1-249-436-11	CARBON	39K	5%	1/4W	
R381	1-247-713-11	CARBON	1K	5%	1/4W	
R382	1-249-409-11	CARBON	220	5%	1/4W	
R385	1-247-891-00	CARBON	330K	5%	1/4W	
R386	1-247-891-00	CARBON	330K	5%	1/4W	
R391	1-249-404-00	CARBON	82	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R392	1-249-402-11	CARBON	56	5%	1/4W	
R393	1-249-402-11	CARBON	56	5%	1/4W	
R394	1-249-402-11	CARBON	56	5%	1/4W	
R395	1-249-417-11	CARBON	1K	5%	1/4W	
R396	1-249-410-11	CARBON	270	5%	1/4W	
R397	1-249-417-11	CARBON	1K	5%	1/4W	
R399	1-249-437-11	CARBON	47K	5%	1/4W	
R414	1-249-415-11	CARBON	680	5%	1/4W	
R415	1-249-416-11	CARBON	820	5%	1/4W	
R416	1-249-415-11	CARBON	680	5%	1/4W	
R417	1-249-415-11	CARBON	680	5%	1/4W	
R418	1-215-412-00	METAL	430	1%	1/6W	
R419	1-249-414-11	CARBON	560	5%	1/4W	
R420	1-249-414-11	CARBON	560	5%	1/4W	
R421	1-249-414-11	CARBON	560	5%	1/4W	
R425	1-249-409-11	CARBON	220	5%	1/4W	
R427	1-249-415-11	CARBON	680	5%	1/4W	
R428	1-247-704-11	CARBON	220	5%	1/4W	
R429	1-249-462-11	CARBON	22K	5%	1/4W	
R430	1-247-713-11	CARBON	1K	5%	1/4W	
R431	1-249-414-11	CARBON	560	5%	1/4W	
R432	1-249-417-11	CARBON	1K	5%	1/4W	
R433	1-249-421-11	CARBON	2.2K	5%	1/4W	
R434	1-249-417-11	CARBON	1K	5%	1/4W	
R435	1-247-893-11	CARBON	390K	5%	1/4W	
R438	1-249-416-11	CARBON	820	5%	1/4W	
R439	1-249-415-11	CARBON	680	5%	1/4W	
R1308	1-249-413-11	CARBON	470	5%	1/4W	
R1313	1-249-429-11	CARBON	10K	5%	1/4W	
R1315	1-249-429-11	CARBON	10K	5%	1/4W	
R2446	1-249-416-11	CARBON	820	5%	1/4W	
R2447	1-247-712-11	CARBON	820	5%	1/4W	
R2448	1-247-712-11	CARBON	820	5%	1/4W	
R2449	1-247-712-11	CARBON	820	5%	1/4W	
R2450	1-249-436-11	CARBON	39K	5%	1/4W	
R2451	1-247-726-11	CARBON	33K	5%	1/4W	
R2460	1-249-424-11	CARBON	3.9K	5%	1/4W	
R2461	1-249-432-11	CARBON	18K	5%	1/4W	
R2462	1-247-721-11	CARBON	4.7K	5%	1/4W	
R2463	1-249-419-11	CARBON	1.5K	5%	1/4W	
R2465	1-249-465-11	CARBON	47K	5%	1/4W	
R2466	1-249-465-11	CARBON	47K	5%	1/4W	
R2467	1-249-441-11	CARBON	100K	5%	1/4W	
R2472	1-247-696-11	CARBON	47	5%	1/4W	
RA	1-249-428-11	CARBON	8.2K	5%	1/4W	
RD	1-249-423-11	CARBON	3.3K	5%	1/4W	
RE	1-249-434-11	CARBON	27K	5%	1/4W	
RF	1-249-429-11	CARBON	10K	5%	1/4W	
JW155	1-247-756-11	CARBON	2.2K	5%	1/2W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV301	1-228-993-00	RES, ADJ, CARBON 4.7K	
RV331	1-230-504-11	RES, ADJ, CARBON 220	

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
T331	1-404-584-11	COIL	

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
X331	1-567-413-11	VIBRATOR, CRYSTAL	
X332	1-527-789-00	VINRATOR, CRYSTAL	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*1-628-825-11	F2 BOARD ********				
		<CONNECTOR>				
CNF11	*1-564-215-11	PIN, CONNECTOR 4P				
CNF12	*1-564-216-00	PIN, CONNECTOR 5P				
		<SWITCH>				
SW01 ⚠	1-571-433-11	SWITCH, PUSH (AC POWER)				

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REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1245-447-A	F1 BOARD, COMPLETE ******************				
		<CAPACITOR>				
C601 ⚠	1-136-360-51	FILM	0.22MF	20%	250V	
C602 ⚠	1-136-360-51	FILM	0.22MF	20%	250V	
C604 ⚠	1-161-964-51	CERAMIC	0.0047MF		250V	
C605 ⚠	1-161-964-51	CERAMIC	0.0047MF		250V	
C606 ⚠	1-161-964-51	CERAMIC	0.0047MF		250V	
C607 ⚠	1-161-964-51	CERAMIC	0.0047MF		250V	
C608	1-124-318-00	ELECT	2.2MF		400V	
C609	1-124-931-11	ELECT	47MF	20%	100V	
C610	1-124-910-11	ELECT	47MF	20%	50V	
C611	1-124-122-11	ELECT	100MF	20%	50V	
C612	1-102-157-00	CERAMIC	560PF	10%	500V	
C613	1-136-159-00	MYLAR	0.033MF	10%	50V	
C614	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C615	1-102-030-00	CERAMIC	330PF	10%	500V	
C617	1-102-030-00	CERAMIC	330PF	10%	500V	
C618	1-125-469-11	ELECT(BLOCK)	820MF	20%	200V	
C619	1-125-469-11	ELECT(BLOCK)	820MF	20%	200V	
C620	1-106-387-00	MYLAR	0.068MF	10%	200V	
C621	1-102-244-00	CERAMIC	220PF	10%	500V	
C622	1-102-244-00	CERAMIC	220PF	10%	500V	
C623	1-102-002-00	CERAMIC	680PF	10%	500V	
C630	1-124-499-11	ELECT	1MF	20%	50V	
C651 ⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V	
C652 ⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V	
C653	1-125-469-11	ELECT(BLOCK)	820MF	20%	200V	
C654	1-124-607-11	ELECT	2200MF	20%	50V	
C655	1-124-618-11	ELECT	2200MF	20%	35V	
C656	1-124-360-00	ELECT	1000MF	20%	16V	
C657	1-102-030-00	CERAMIC	330PF	10%	500V	
C658	1-102-030-00	CERAMIC	330PF	10%	500V	
C659	1-102-030-00	CERAMIC	330PF	10%	500V	
C660	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C661	1-102-030-00	CERAMIC	330PF	10%	500V	
C662	1-124-618-11	ELECT	2200MF	20%	35V	
C663	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
		<CONNECTOR>				
CNF03	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P				
CNF04	*1-564-513-11	PLUG, CONNECTOR 10P				
CNF05	*1-564-104-00	PIN, CONNECTOR 3P				
CNF06	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P				
CNF08	*1-564-505-11	PLUG, CONNECTOR 2P				

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>	
D601 ⚠	8-719-946-90	DIODE KBU4JL-6088	
D602	8-719-304-63	DIODE RM11C	
D604	8-719-108-18	THYRISTOR 5P4M	
D605	8-719-302-21	DIODE EU2Z-V1	
D607	8-719-300-70	DIODE RH-1C	
D609	8-719-110-18	DIODE RD10ES-B3	
D610	8-719-302-21	DIODE EU2Z-V1	
D615	8-719-304-63	DIODE RM11C	
D651	8-719-300-33	DIODE RU-3AM	
D652	8-719-301-64	DIODE RU4DS	
D653	8-719-300-59	DIODE CTU-12S	
D654	8-719-925-06	DIODE ERC25-06S	
D657	8-719-300-59	DIODE CTU-12S	
		<EYELET>	
EY01	*4-341-751-01	EYELET	
EY02	*4-341-751-01	EYELET	
EY03	*4-341-751-01	EYELET	
EY04	*4-341-751-01	EYELET	
EY05	*4-341-751-01	EYELET	
EY06	*4-341-751-01	EYELET	
EY07	*4-341-751-01	EYELET	
EY08	*4-341-751-01	EYELET	
EY09	*4-341-751-01	EYELET	
EY10	*4-341-751-01	EYELET	
EY11	*4-341-751-01	EYELET	
EY12	*4-341-751-01	EYELET	
EY13	*4-341-751-01	EYELET	
EY14	*4-341-751-01	EYELET	
EY15	*4-341-751-01	EYELET	
EY16	*4-341-751-01	EYELET	
EY17	*4-341-751-01	EYELET	
EY20	*4-341-751-01	EYELET	
EY22	*4-341-751-01	EYELET	
EY23	*4-341-751-01	EYELET	
EY50	*4-341-752-01	EYELET	
EY51	*4-341-752-01	EYELET	
EY52	*4-341-752-01	EYELET	
EY53	*4-341-752-01	EYELET	
EY54	*4-341-752-01	EYELET	
EY55	*4-341-752-01	EYELET	
EY56	*4-341-752-01	EYELET	
EY57	*4-341-752-01	EYELET	
EY58	*4-341-752-01	EYELET	
EY59	*4-341-752-01	EYELET	
EY60	*4-341-752-01	EYELET	
EY61	*4-341-752-01	EYELET	
EY62	*4-341-752-01	EYELET	
EY63	*4-341-752-01	EYELET	
EY64	*4-341-752-01	EYELET	
EY65	*4-341-752-01	EYELET	
EY66	*4-341-752-01	EYELET	
EY67	*4-341-752-01	EYELET	
		<FUSE>	
F601 ⚠	1-532-299-11	FUSE, TIME-LAG 5A/250V	
	*1-533-189-11	HOLDER, FUSE; F601	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC601	8-749-920-24	IC STR80145	
	3-701-809-51	SCREW, TERMINAL (M3X12); IC601	
	4-363-414-00	SPACER, MICA; IC601	
IC602	8-749-920-63	IC STR-S5941	
	3-701-809-51	SCREW, TERMINAL (M3X12); IC602	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L602	1-410-397-21	FERRITE BEAD INDUCTOR	
L658	1-410-397-21	FERRITE BEAD INDUCTOR	
L659	1-410-397-21	FERRITE BEAD INDUCTOR	
L660	1-410-397-21	FERRITE BEAD INDUCTOR	
L661	1-410-397-21	FERRITE BEAD INDUCTOR	
L662	1-407-365-00	COIL, CHOKE	
L665	1-410-397-21	FERRITE BEAD INDUCTOR	

<IC LINK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
PS601 ⚠	1-532-637-91	LINK, IC 1A	
PS652 ⚠	1-532-637-91	LINK, IC 1A	
PS653 ⚠	1-532-984-91	LINK, IC 2A	
PS654 ⚠	1-532-637-91	LINK, IC 1A	
PS655 ⚠	1-532-637-91	LINK, IC 1A	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q601	8-729-119-78	TRANSISTOR 2SC2785-HFE	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R601	1-205-922-11	WIREWOUND	5.6	5%	7W	
R602	1-247-895-00	CARBON	470K	5%	1/4W	
R604	1-207-612-00	WIREWOUND	0.1	10%	2W	F
R607	1-215-883-11	METAL OXIDE	33	5%	2W	F
R608	1-215-905-11	METAL OXIDE	10	5%	3W	F
R609	1-247-891-00	CARBON	330K	5%	1/4W	
R610	1-247-891-00	CARBON	330K	5%	1/4W	
R611	1-215-907-11	METAL OXIDE	22	5%	3W	F
R612	1-216-491-11	METAL OXIDE	56K	5%	3W	F
R613	1-215-892-11	METAL OXIDE	1K	5%	2W	F
R614	1-215-892-11	METAL OXIDE	1K	5%	2W	F
R620	1-215-892-11	METAL OXIDE	1K	5%	2W	F
R622	1-247-891-00	CARBON	330K	5%	1/4W	
R623	1-247-891-00	CARBON	330K	5%	1/4W	
R624	1-247-891-00	CARBON	330K	5%	1/4W	
R625	1-247-891-00	CARBON	330K	5%	1/4W	
R626	1-247-891-00	CARBON	330K	5%	1/4W	
R627	1-247-891-00	CARBON	330K	5%	1/4W	
R630	1-247-708-11	CARBON	470	5%	1/4W	
R631	1-246-539-00	CARBON	560K	5%	1/4W	
R651 ⚠	1-247-289-11	CARBON	8.2M	5%	1W	

<SPARK GAP>

REF.NO.	PART NO.	DESCRIPTION	REMARK
SG601 ⚠	1-519-422-21	GAP, SPARK	

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
T601 ⚠	1-421-578-11	TRANSFORMER, LINE FILTER (LFT)	
T603 ⚠	1-449-500-11	TRANSFORMER, REGULATOR	

<THERMISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
THP601 ⚠	1-808-059-31	THERMISTOR, POSITIVE	

****

*A-1296-521-A A BOARD, COMPLETE
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REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-557-241-31	CABLE, P-P	
	*1-565-488-11	CONNECTOR, BOARD TO BOARD 12P	

<IF BLOCK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
A01	1-466-068-11	IF BLOCK (SIF-M4)	
IFD01	1-466-064-11	IF BLOCK (IFD-389)	
IFG01	1-464-964-11	IF BLOCK (IFG-5.5S)	

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C01	1-124-927-11	ELECT	4.7MF	20%	50V	
C03	1-101-003-00	CERAMIC	0.0047MF		50V	
C06	1-102-959-00	CERAMIC	22PF	5%	50V	
C07	1-123-875-11	ELECT	10MF	20%	50V	
C08	1-123-875-11	ELECT	10MF	20%	50V	
C09	1-123-875-11	ELECT	10MF	20%	50V	
C10	1-123-875-11	ELECT	10MF	20%	50V	
C11	1-124-477-11	ELECT	47MF	20%	16V	
C12	1-136-177-00	FILM	1MF	5%	50V	
C13	1-101-003-00	CERAMIC	0.0047MF		50V	
C14	1-101-003-00	CERAMIC	0.0047MF		50V	
C15	1-123-875-11	ELECT	10MF	20%	50V	
C16	1-136-157-00	MYLAR	0.022MF	10%	50V	
C17	1-123-875-11	ELECT	10MF	20%	50V	
C18	1-123-875-11	ELECT	10MF	20%	50V	
C19	1-106-367-00	MYLAR	0.01MF	10%	400V	
C20	1-126-233-11	ELECT	22MF	20%	50V	
C21	1-123-875-11	ELECT	10MF	20%	50V	
C22	1-106-220-00	MYLAR	0.1MF	10%	100V	
C23	1-106-228-00	MYLAR	0.22MF	10%	100V	
C24	1-124-963-11	ELECT	33MF	20%	16V	
C25	1-106-375-12	MYLAR	0.022MF	10%	250V	
C26	1-106-383-00	MYLAR	0.047MF	10%	100V	
C27	1-124-499-11	ELECT	1MF	20%	50V	
C29	1-124-499-11	ELECT	1MF	20%	50V	
C30	1-124-499-11	ELECT	1MF	20%	50V	
C31	1-106-367-00	MYLAR	0.01MF	10%	400V	
C32	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C34	1-106-228-00	MYLAR	0.22MF	10%	100V	
C35	1-124-477-11	ELECT	47MF	20%	16V	
C36	1-124-477-11	ELECT	47MF	20%	16V	
C37	1-124-927-11	ELECT	4.7MF	20%	50V	
C38	1-124-927-11	ELECT	4.7MF	20%	50V	
C39	1-124-963-11	ELECT	33MF	20%	16V	
C40	1-124-963-11	ELECT	33MF	20%	16V	
C43	1-124-443-00	ELECT	100MF	20%	10V	
C44	1-102-816-00	CERAMIC	120PF	5%	50V	
C50	1-101-003-00	CERAMIC	0.0047MF		50V	
C51	1-123-875-11	ELECT	10MF	20%	50V	
C53	1-124-477-11	ELECT	47MF	20%	16V	
C54	1-101-003-00	CERAMIC	0.0047MF		50V	
C55	1-123-875-11	ELECT	10MF	20%	50V	
C69	1-124-499-11	ELECT	1MF	20%	50V	
C70	1-130-475-00	MYLAR	0.0022MF	10%	50V	
C71	1-102-116-00	CERAMIC	680PF	10%	50V	
C75	1-124-477-11	ELECT	47MF	20%	16V	
C76	1-101-880-00	CERAMIC	47PF	10%	50V	

KV-2900T
RM-679MT

A C

> The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CNA01	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
CNA02	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
CNA03	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	
CNA04	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	
		<CERAMIC TRAP>	
CT01	1-409-332-00	CERAMIC TRAP (4.5MHZ)	
		<DIODE>	
D02	8-719-000-06	DIODE MC921	
D05	8-719-100-35	DIODE RD5.6ES-B2	
D06	8-719-911-19	DIODE 1SS119	
		<IC>	
IC01	8-759-979-61	IC SAB3035	
IC03	8-759-979-62	IC PCF8574	
IC04	8-759-208-08	IC TC4052BPHB	
		<COIL>	
L01	1-410-478-11	INDUCTOR 47UH	
L02	1-410-470-11	INDUCTOR 10UH	
L03	1-410-478-11	INDUCTOR 47UH	
L04	1-410-478-11	INDUCTOR 47UH	
L08	1-408-411-00	INDUCTOR 15UH	
L09	1-410-470-11	INDUCTOR 10UH	
		<TRANSISTOR>	
Q03	8-729-900-89	TRANSISTOR DTC144ES	
Q04	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q05	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q06	8-729-115-30	TRANSISTOR 2SK105A-30	
Q07	8-729-900-89	TRANSISTOR DTC144ES	
Q08	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q11	8-729-900-89	TRANSISTOR DTC144ES	
Q12	8-729-900-89	TRANSISTOR DTC144ES	
Q13	8-729-900-89	TRANSISTOR DTC144ES	
Q14	8-729-900-89	TRANSISTOR DTC144ES	
Q15	8-729-900-65	TRANSISTOR DTA144ES	
Q16	8-729-900-65	TRANSISTOR DTA144ES	
Q17	8-729-900-65	TRANSISTOR DTA144ES	
Q18	8-729-900-65	TRANSISTOR DTA144ES	
Q24	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q25	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q26	8-729-900-89	TRANSISTOR DTC144ES	
Q27	8-729-900-89	TRANSISTOR DTC144ES	
Q28	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q35	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q36	8-729-900-89	TRANSISTOR DTC144ES	
Q37	8-729-900-89	TRANSISTOR DTC144ES	
Q38	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<RESISTOR>	
R01	1-249-417-11	CARBON 1K 5% 1/4W	
R02	1-249-429-11	CARBON 10K 5% 1/4W	
R03	1-249-427-11	CARBON 6.8K 5% 1/4W	
R04	1-249-429-11	CARBON 10K 5% 1/4W	
R05	1-249-429-11	CARBON 10K 5% 1/4W	
R07	1-247-725-11	CARBON 10K 5% 1/4W	
R08	1-249-429-11	CARBON 10K 5% 1/4W	
R09	1-249-418-11	CARBON 1.2K 5% 1/4W	
R13	1-249-419-11	CARBON 1.5K 5% 1/4W	
R14	1-249-417-11	CARBON 1K 5% 1/4W	
R15	1-249-431-11	CARBON 15K 5% 1/4W	
R16	1-249-429-11	CARBON 10K 5% 1/4W	
R26	1-249-417-11	CARBON 1K 5% 1/4W	
R27	1-249-410-11	CARBON 270 5% 1/4W	
R28	1-249-423-11	CARBON 3.3K 5% 1/4W	
R29	1-249-437-11	CARBON 47K 5% 1/4W	
R32	1-249-441-11	CARBON 100K 5% 1/4W	
R34	1-249-405-11	CARBON 100 5% 1/4W	
R36	1-249-417-11	CARBON 1K 5% 1/4W	
R51	1-249-435-11	CARBON 33K 5% 1/4W	
R52	1-249-435-11	CARBON 33K 5% 1/4W	
R53	1-249-435-11	CARBON 33K 5% 1/4W	
R54	1-249-435-11	CARBON 33K 5% 1/4W	
R55	1-249-429-11	CARBON 10K 5% 1/4W	
R56	1-249-431-11	CARBON 15K 5% 1/4W	
R58	1-249-441-11	CARBON 100K 5% 1/4W	
R59	1-249-441-11	CARBON 100K 5% 1/4W	
R60	1-249-437-11	CARBON 47K 5% 1/4W	
R61	1-249-437-11	CARBON 47K 5% 1/4W	
R63	1-249-425-11	CARBON 4.7K 5% 1/4W	
R64	1-249-437-11	CARBON 47K 5% 1/4W	
R65	1-249-437-11	CARBON 47K 5% 1/4W	
R67	1-249-425-11	CARBON 4.7K 5% 1/4W	
R68	1-249-441-11	CARBON 100K 5% 1/4W	
R71	1-249-429-11	CARBON 10K 5% 1/4W	
R74	1-249-426-11	CARBON 5.6K 5% 1/4W	
R75	1-249-417-11	CARBON 1K 5% 1/4W	
R82	1-249-433-11	CARBON 22K 5% 1/4W	
R85	1-249-423-11	CARBON 3.3K 5% 1/4W	
R86	1-249-423-11	CARBON 3.3K 5% 1/4W	
R87	1-249-427-11	CARBON 6.8K 5% 1/4W	
R88	1-249-411-11	CARBON 330 5% 1/4W	
R89	1-247-891-00	CARBON 330K 5% 1/4W	
R90	1-249-440-11	CARBON 82K 5% 1/4W	
R91	1-249-429-11	CARBON 10K 5% 1/4W	
R92	1-249-421-11	CARBON 2.2K 5% 1/4W	
R93	1-249-431-11	CARBON 15K 5% 1/4W	
R94	1-249-425-11	CARBON 4.7K 5% 1/4W	
R96	1-249-433-11	CARBON 22K 5% 1/4W	
R98	1-249-441-11	CARBON 100K 5% 1/4W	
R103	1-249-441-11	CARBON 100K 5% 1/4W	
		<TUNER>	
TU01	⚠ 1-465-109-11	TUNER, ET (UV-618)	
		<CRYSTAL>	
X01	1-577-293-11	VIBRATOR, CRYSTAL	

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	PART NO.	DESCRIPTION
	*A-1330-914-A	C BOARD, COMPLETE
	*4-379-160-01	COVER (REAR LID), CV
	*4-379-167-01	COVER (MAIN), CV

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C703	1-102-980-00	CERAMIC	270PF	5%	50V	
C704	1-102-116-00	CERAMIC	680PF	10%	50V	
C705	1-102-978-00	CERAMIC	220PF	5%	50V	
C706	1-102-116-00	CERAMIC	680PF	10%	50V	
C707	1-162-116-00	CERAMIC	680PF	10%	2KV	
C708	1-162-114-00	CERAMIC	0.0047MF		2KV	
C709	1-102-116-00	CERAMIC	680PF	10%	50V	
C710	1-123-947-00	ELECT	10MF	20%	250V	
C711	1-101-888-00	CERAMIC	68PF	5%	50V	
C712	1-102-980-00	CERAMIC	270PF	5%	50V	
C714	1-126-103-11	ELECT	470MF	20%	16V	
C716	1-162-622-11	CERAMIC	330PF	10%	400V	
C717	1-102-114-00	CERAMIC	470PF	10%	50V	
C718	1-102-114-00	CERAMIC	470PF	10%	50V	
C719	1-102-114-00	CERAMIC	470PF	10%	50V	
C721	1-124-915-11	ELECT	10MF	20%	63V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CNC71	*1-506-348-XX	PIN, CONNECTOR 3P
CNC72	*1-564-509-11	PLUG, CONNECTOR 6P
CNC81	*1-564-506-11	PLUG, CONNECTOR 3P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D701	8-719-110-14	DIODE RD9.1ES-B3
D702	8-719-911-19	DIODE 1SS119
D703	8-719-911-19	DIODE 1SS119
D704	8-719-911-19	DIODE 1SS119
D705	8-719-911-19	DIODE 1SS119
D706	8-719-911-19	DIODE 1SS119
D707	8-719-911-19	DIODE 1SS119
D708	8-719-911-19	DIODE 1SS119
D709	8-719-911-19	DIODE 1SS119
D710	8-719-911-19	DIODE 1SS119
D711	8-719-925-06	DIODE ERC25-06S
D713	8-719-911-19	DIODE 1SS119

<JACK>

REF.NO.	PART NO.	DESCRIPTION
J701	1-526-798-51	SOCKET, PICTURE TUBE

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
L704	1-410-476-11	INDUCTOR	33UH

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q703	8-729-326-11	TRANSISTOR 2SC2611
Q704	8-729-200-17	TRANSISTOR 2SA1091
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q706	8-729-326-11	TRANSISTOR 2SC2611
Q707	8-729-200-17	TRANSISTOR 2SA1091
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q709	8-729-326-11	TRANSISTOR 2SC2611
Q710	8-729-200-17	TRANSISTOR 2SA1091

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R704	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R705	1-202-824-00	SOLID	3.3K	10%	1/2W	
R706	1-249-409-11	CARBON	220	5%	1/4W	
R707	1-247-706-11	CARBON	330	5%	1/4W	
R708	1-247-696-11	CARBON	47	5%	1/4W	
R709	1-202-844-00	SOLID	330K	10%	1/2W	
R710	1-215-453-00	METAL	22K	1%	1/6W	
R712	1-249-417-11	CARBON	1K	5%	1/4W	
R713	1-215-461-00	METAL	47K	1%	1/6W	
R714	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R715	1-202-824-00	SOLID	3.3K	10%	1/2W	
R716	1-247-704-11	CARBON	220	5%	1/4W	
R717	1-247-710-11	CARBON	560	5%	1/4W	
R718	1-202-814-11	SOLID	33K	10%	1/2W	
R719	1-247-696-11	CARBON	47	5%	1/4W	
R720	1-249-423-11	CARBON	3.3K	5%	1/4W	
R721	1-202-842-11	SOLID	220K	10%	1/2W	
R722	1-202-848-00	SOLID	680K	10%	1/2W	
R723	1-249-417-11	CARBON	1K	5%	1/4W	
R724	1-202-846-00	SOLID	470K	10%	1/2W	
R725	1-202-838-00	SOLID	100K	10%	1/2W	
R726	1-202-824-00	SOLID	3.3K	10%	1/2W	
R727	1-249-409-11	CARBON	220	5%	1/4W	
R728	1-216-347-11	METAL OXIDE	0.68	5%	1W	F
R729	1-249-415-11	CARBON	680	5%	1/4W	
R730	1-249-401-11	CARBON	47	5%	1/4W	
R731	1-249-423-11	CARBON	3.3K	5%	1/4W	
R732	1-249-415-11	CARBON	680	5%	1/4W	
R733	1-247-711-11	CARBON	680	5%	1/4W	
R734	1-249-405-11	CARBON	100	5%	1/4W	
R735	1-215-471-00	METAL	120K	1%	1/6W	
R736	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R737	1-215-469-00	METAL	100K	1%	1/6W	
R738	1-202-549-00	SOLID	100	10%	1/2W	
R739	1-202-837-00	SOLID	82K	10%	1/2W	
R739A	1-249-417-11	CARBON	1K	5%	1/4W	
R740	1-202-846-00	SOLID	470K	10%	1/2W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV701	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M
RV702 ⚠	1-230-619-11	RES, ADJ, METAL GLAZE 110M
RV703	1-228-991-00	RES, ADJ, CARBON 2.2K
RV704	1-228-991-00	RES, ADJ, CARBON 2.2K

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*A-1345-814-A D BOARD, COMPLETE
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C501	1-124-927-11	ELECT	4.7MF	20%	50V	
C502	1-124-927-11	ELECT	4.7MF	20%	50V	
C503	1-106-371-00	MYLAR	0.015MF	10%	100V	
C504	1-101-361-00	CERAMIC	150PF	5%	50V	
C505	1-130-473-00	MYLAR	0.0015MF	5%	50V	
C506	1-106-375-12	MYLAR	0.022MF	10%	200V	
C507	1-136-171-00	FILM	0.33MF	5%	50V	
C508	1-106-375-12	MYLAR	0.022MF	10%	200V	
C509	1-106-220-00	MYLAR	0.1MF	10%	100V	
C510	1-161-959-00	CERAMIC	22PF	10%	500V	
C511	1-106-355-12	MYLAR	0.0033MF	10%	100V	
C512	1-106-220-00	MYLAR	0.1MF	10%	100V	
C513	1-106-343-00	MYLAR	0.001MF	10%	100V	

KV-2900T
RM-679MT

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C514	1-106-228-00	MYLAR	0.22MF	10%	100V
C515	1-124-499-11	ELECT	1MF	20%	50V
C516	1-106-343-00	MYLAR	0.001MF	10%	100V
C517	1-124-477-11	ELECT	47MF	20%	16V
C518	1-124-902-00	ELECT	0.47MF	20%	50V
C519	1-136-173-00	FILM	0.47MF	5%	50V
C520	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C521	1-106-220-00	MYLAR	0.1MF	10%	100V
C522	1-126-105-11	ELECT	1000MF	20%	35V
C523	1-106-343-00	MYLAR	0.001MF	10%	100V
C524	1-106-355-12	MYLAR	0.0033MF	10%	100V
C525	1-102-973-00	CERAMIC	100PF	5%	50V
C527	1-106-220-00	MYLAR	0.1MF	10%	100V
C531	1-124-190-00	ELECT	680MF	10%	25V
C532	1-124-122-11	ELECT	100MF	20%	50V
C533	1-106-216-00	MYLAR	0.068MF	10%	100V
C534	1-124-120-11	ELECT	220MF	20%	16V
C536	1-131-365-00	TANTALUM	10MF	10%	16V
C537	1-124-499-11	ELECT	1MF	20%	50V
C538	1-106-343-00	MYLAR	0.001MF	10%	100V
C539	1-102-820-00	CERAMIC	330PF	5%	50V
C591	1-123-875-11	ELECT	10MF	20%	50V
C592	1-124-477-11	ELECT	47MF	20%	16V
C593	1-102-820-00	CERAMIC	330PF	5%	50V
C594	1-102-231-11	CERAMIC	47PF	10%	500V
C801	1-126-105-11	ELECT	1000MF	20%	35V
C802	1-102-228-00	CERAMIC	470PF	10%	500V
C804	1-123-948-00	ELECT	22MF	20%	250V
C805	1-162-114-00	CERAMIC	0.0047MF		2KV
C806	1-106-387-00	MYLAR	0.068MF	10%	200V
C807	1-106-395-00	MYLAR	0.15MF	10%	200V
C810	1-124-494-00	ELECT	33MF		160V
C811	1-136-128-00	FILM	1.2MF	5%	400V
C812	1-123-946-00	ELECT	4.7MF	20%	250V
C813	1-102-212-00	CERAMIC	820PF	10%	500V
C814 ⚠	1-161-731-11	CERAMIC	0.001MF	10%	2KV
C815	1-136-126-00	FILM	0.82MF	5%	400V
C817	1-136-591-11	FILM	0.017MF	3%	1.4KV
C818	1-136-759-11	FILM	0.039MF	10%	630V
C819 ⚠	1-162-116-51	CERAMIC	680PF	10%	2KV
C820	1-106-365-00	MYLAR	0.0082MF	99%	200V
C821 ⚠	1-161-731-11	CERAMIC	0.001MF	10%	2KV
C822	1-102-114-00	CERAMIC	470PF	10%	50V
C823	1-106-359-00	MYLAR	0.0047MF	10%	200V
C824	1-102-212-00	CERAMIC	820PF	10%	500V
C828	1-106-383-00	MYLAR	0.047MF	10%	100V
C829	1-106-379-12	MYLAR	0.033MF	10%	200V
C849	1-102-112-00	CERAMIC	330PF	10%	50V
C850	1-102-212-00	CERAMIC	820PF	10%	500V
C851	1-126-105-11	ELECT	1000MF	20%	35V
C852	1-102-002-00	CERAMIC	680PF	10%	500V
C854	1-124-443-00	ELECT	100MF	20%	6.3V
C855	1-124-499-11	ELECT	1MF	20%	50V
C860	1-161-830-00	CERAMIC	0.0047MF		500V
C1501	1-123-875-11	ELECT	10MF	20%	50V
C1502	1-123-875-11	ELECT	10MF	20%	50V
C1504	1-124-910-11	ELECT	47MF	20%	50V
C1505	1-106-383-00	MYLAR	0.047MF	10%	100V
C1507	1-106-355-12	MYLAR	0.0033MF	10%	100V
C1508	1-123-875-11	ELECT	10MF	20%	50V
C1509	1-124-499-11	ELECT	1MF	20%	50V
C1511	1-123-875-11	ELECT	10MF	20%	50V
C1512	1-106-367-00	MYLAR	0.01MF	10%	100V
C1513	1-102-963-00	CERAMIC	33PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1520	1-106-367-00	MYLAR	0.01MF	10%	100V
C1551	1-124-902-00	ELECT	0.47MF	20%	50V
C1552	1-124-122-11	ELECT	100MF	20%	50V
C1630	1-124-463-00	ELECT	0.1MF	20%	50V
C1631	1-124-187-11	ELECT	22MF	20%	50V
C5501	1-124-499-11	ELECT	1MF	20%	50V
C5502	1-124-119-00	ELECT	330MF	20%	16V

<FILTER>

REF.NO.	PART NO.	DESCRIPTION
CF501	1-567-888-11	OSCILLATOR, CERAMIC

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CND20	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P
CND21	*1-564-104-00	PIN, CONNECTOR 3P
CND22	*1-564-514-11	PLUG, CONNECTOR 11P
CND23	*1-564-506-11	PLUG, CONNECTOR 3P
CND81	*1-564-506-11	PLUG, CONNECTOR 3P
CND83	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P
CND87	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P
CND801	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D501	8-719-911-19	DIODE 1SS119
D502	8-719-200-02	DIODE 10E2
D504	8-719-911-55	DIODE U05G
D506	8-719-000-12	DIODE MC931
D508	8-719-911-19	DIODE 1SS119
D509	8-719-911-19	DIODE 1SS119
D511	8-719-911-55	DIODE U05G
D512	8-719-911-55	DIODE U05G
D513	8-719-109-81	DIODE RD4.7ES-B2
D591	8-719-911-19	DIODE 1SS119
D592	8-719-911-19	DIODE 1SS119
D593	8-719-911-19	DIODE 1SS119
D801	8-719-925-06	DIODE ERC25-06S
D802	8-719-925-06	DIODE ERC25-06S
D803	8-719-300-65	DIODE ES1F
D804	8-719-911-55	DIODE U05G
D805	8-719-911-55	DIODE U05G
D806	8-719-945-80	DIODE ERC06-15S
D807	8-719-945-80	DIODE ERC06-15S
D808	8-719-900-26	DIODE ERD29-08J
D809	8-719-911-19	DIODE 1SS119
D850	8-719-901-58	DIODE RGP15J
D1501	8-719-925-06	DIODE ERC25-06S
D1502	8-719-911-19	DIODE 1SS119
D1503	8-719-911-19	DIODE 1SS119
D1504	8-719-911-19	DIODE 1SS119
D1505	8-719-000-12	DIODE MC931
D1550	8-719-911-19	DIODE 1SS119
D1552	8-719-925-06	DIODE ERC25-06S
D1553	8-719-911-19	DIODE 1SS119

<EYELET>

REF.NO.	PART NO.	DESCRIPTION
EY1	*4-341-752-01	EYELET
EY2	*4-341-752-01	EYELET
EY3	*4-341-752-01	EYELET
EY4	*4-341-752-01	EYELET
EY5	*4-341-751-01	EYELET

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
EY6	*4-341-751-01	EYELET	
EY7	*4-341-751-01	EYELET	
EY8	*4-341-751-01	EYELET	
EY9	*4-341-751-01	EYELET	
EY10	*4-341-751-01	EYELET	
EY12	*4-341-752-01	EYELET	
EY18	*4-341-751-01	EYELET	
EY19	*4-341-751-01	EYELET	
EY20	*4-341-752-01	EYELET	
EY21	*4-341-752-01	EYELET	
EY23	*4-341-752-01	EYELET	
EY24	*4-341-752-01	EYELET	
EY25	*4-341-751-01	EYELET	
EY26	*4-341-751-01	EYELET	
EY27	*4-341-751-01	EYELET	
		<IC>	
IC501	8-759-970-73	IC TEA2028B	
IC502	8-759-944-57	IC TDA8170	
IC503	8-749-920-60	IC STR90120	
IC1501	8-759-942-16	IC TEA2031A	
		<COIL>	
L501	1-408-225-00	INDUCTOR 3.3UH	
L801	1-459-111-00	COIL, DRAM CORE (CDI)	
L803	1-459-104-00	COIL, DUST CORE	
L804	1-408-237-00	INDUCTOR 3.3MMH	
L805	1-459-780-13	COIL, HORIZONTAL LINEARITY	
L806	1-459-111-00	COIL, DRAM CORE (CDI)	
L809	*1-420-872-00	COIL, AIR CORE	
L811	1-459-104-00	COIL, DUST CORE	
L812	1-408-698-00	INDUCTOR 8.2UH	
L850	1-408-225-00	INDUCTOR 3.3UH	
		<NEON LAMP>	
NL801⚠	1-519-237-13	LAMP, NEON	
		<TRANSISTOR>	
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q502	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q505	8-729-177-42	TRANSISTOR 2SD774-2	
Q506	8-729-177-42	TRANSISTOR 2SD774-2	
Q507	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q512	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q515	8-729-900-80	TRANSISTOR DTC114ES	
Q591	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q598	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q804	8-729-305-01	TRANSISTOR 2SD1941-07	
	*4-378-214-01	HOLDER, TR; Q804	
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q806	8-729-122-12	TRANSISTOR 2SA1221-L	
Q807	8-729-107-53	TRANSISTOR 2SC2275-A	
Q1551	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1552	8-729-208-72	TRANSISTOR 2SC3298A-0	
Q1608	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1609	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1610	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1613	8-729-119-76	TRANSISTOR 2SA1175-HFE	

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<RESISTOR>				
R500	1-247-897-11	CARBON	560K	5%	1/4W	
R501	1-247-708-11	CARBON	470	5%	1/4W	
R502	1-249-409-11	CARBON	220	5%	1/4W	
R503	1-249-410-11	CARBON	270	5%	1/4W	
R504	1-214-735-00	METAL	1.8K	1%	1/4W	
R505	1-249-460-11	CARBON	15K	5%	1/4W	
R506	1-249-428-11	CARBON	8.2K	5%	1/4W	
R509	1-249-424-11	CARBON	3.9K	5%	1/4W	
R510	1-249-426-11	CARBON	5.6K	5%	1/4W	
R511	1-247-719-11	CARBON	3.3K	5%	1/4W	
R513	1-249-425-11	CARBON	4.7K	5%	1/4W	
R514	1-249-409-11	CARBON	220	5%	1/4W	
R515	1-249-423-11	CARBON	3.3K	5%	1/4W	
R516	1-249-408-11	CARBON	180	5%	1/4W	
R517	1-247-725-11	CARBON	10K	5%	1/4W	
R518	1-249-437-11	CARBON	47K	5%	1/4W	
R519	1-249-433-11	CARBON	22K	5%	1/4W	
R520	1-249-411-11	CARBON	330	5%	1/4W	
R521	1-247-700-11	CARBON	100	5%	1/4W	
R524	1-249-421-11	CARBON	2.2K	5%	1/4W	
R525	1-249-417-11	CARBON	1K	5%	1/4W	
R526	1-247-704-11	CARBON	220	5%	1/4W	F
R527	1-249-460-11	CARBON	15K	5%	1/4W	
R530	1-249-448-11	CARBON	1.2	5%	1/4W	F
R531	1-247-881-00	CARBON	120K	5%	1/4W	
R532	1-247-713-11	CARBON	1K	5%	1/4W	
R534	1-246-543-00	CARBON	820K	5%	1/4W	
R535	1-249-751-11	CARBON	3.3M	5%	1/4W	
R536	1-249-749-00	CARBON	2.2M	5%	1/4W	
R537	1-249-463-11	CARBON	27K	5%	1/4W	
R538	1-249-469-11	CARBON	100K	5%	1/4W	
R539	1-247-883-00	CARBON	150K	5%	1/4W	
R541	1-249-438-11	CARBON	56K	5%	1/4W	
R542	1-249-429-11	CARBON	10K	5%	1/4W	
R543	1-249-451-11	CARBON	2.2	5%	1/4W	
R544	1-247-745-11	CARBON	330	5%	1/2W	
R545	1-249-462-11	CARBON	22K	5%	1/4W	
R546	1-249-434-11	CARBON	27K	5%	1/4W	
R547	1-249-423-11	CARBON	3.3K	5%	1/4W	
R548	1-216-349-00	METAL OXIDE	1	5%	1W	F
R549	1-215-890-11	METAL OXIDE	470	5%	2W	F
R550	1-249-440-11	CARBON	82K	5%	1/4W	
R551	1-249-749-00	CARBON	2.2M	5%	1/4W	
R552	1-216-433-00	METAL OXIDE	1.2K	5%	1W	F
R553	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R554	1-249-411-11	CARBON	330	5%	1/4W	
R555	1-249-749-00	CARBON	2.2M	5%	1/4W	
R556	1-249-405-11	CARBON	100	5%	1/4W	
R557	1-249-425-11	CARBON	4.7K	5%	1/4W	
R558	1-247-895-00	CARBON	470K	5%	1/4W	
R559	1-249-427-11	CARBON	6.8K	5%	1/4W	
R560	1-249-411-11	CARBON	330	5%	1/4W	
R563	1-249-437-11	CARBON	47K	5%	1/4W	
R564	1-249-429-11	CARBON	10K	5%	1/4W	
R565	1-249-426-11	CARBON	5.6K	5%	1/4W	
R566	1-249-435-11	CARBON	33K	5%	1/4W	
R567	1-249-422-11	CARBON	2.7K	5%	1/4W	
R569	1-249-405-11	CARBON	100	5%	1/4W	
R570	1-249-435-11	CARBON	33K	5%	1/4W	
R591	1-249-427-11	CARBON	6.8K	5%	1/4W	
R592	1-249-429-11	CARBON	10K	5%	1/4W	
R593	1-249-429-11	CARBON	10K	5%	1/4W	

D V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R594	1-249-424-11	CARBON	3.9K	5%	1/4W	
R595	1-249-417-11	CARBON	1K	5%	1/4W	
R596	1-249-425-11	CARBON	4.7K	5%	1/4W	
R597	1-249-425-11	CARBON	4.7K	5%	1/4W	
R598	1-249-405-11	CARBON	100	5%	1/4W	
R599	1-249-405-11	CARBON	100	5%	1/4W	
R670	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R671	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R672	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R673	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R674	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R802	1-249-474-11	CARBON	1	5%	1/2W	F
R805	1-249-474-11	CARBON	1	5%	1/2W	F
R806	1-249-467-11	CARBON	68K	5%	1/4W	
R807	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R809	1-202-823-11	SOLID	2.7K	10%	1/2W	
R812	1-249-494-11	CARBON	68K	5%	1/2W	
R815	1-215-884-11	METAL OXIDE	47	5%	2W	F
R816	1-215-868-00	METAL OXIDE	680	5%	1W	F
R817	1-249-417-11	CARBON	1K	5%	1/4W	
R820	1-249-403-11	CARBON	68	5%	1/4W	
R821	1-247-725-11	CARBON	10K	5%	1/4W	F
R822	1-217-778-11	FUSIBLE	1K	5%	1W	F
R825	1-216-341-11	METAL OXIDE	0.22	5%	1W	F
R831	1-249-443-11	CARBON	0.47	5%	1/4W	F
R832	1-247-692-11	CARBON	22	5%	1/4W	F
R833	1-216-379-11	METAL OXIDE	6.8	5%	2W	F
R834	1-249-482-11	CARBON	4.7	5%	1/2W	F
R835	1-215-884-11	METAL OXIDE	47	5%	2W	F
R836	1-215-884-11	METAL OXIDE	47	5%	2W	F
R837	1-215-911-11	METAL OXIDE	100	5%	3W	F
R839	1-249-429-11	CARBON	10K	5%	1/4W	
R840	1-249-496-11	CARBON	100K	5%	1/2W	
R841	1-247-713-11	CARBON	1K	5%	1/4W	
R842	1-247-713-11	CARBON	1K	5%	1/4W	
R843	1-216-389-11	METAL OXIDE	1	5%	3W	F
R844	1-215-421-00	METAL	1K	1%	1/6W	
R845	1-214-913-00	METAL	100K	1%	1/2W	
R846	1-249-496-11	CARBON	100K	5%	1/2W	
R847	1-249-429-11	CARBON	10K	5%	1/4W	
R848	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R849	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R1501	1-249-462-11	CARBON	22K	5%	1/4W	
R1502	1-249-434-11	CARBON	27K	5%	1/4W	
R1503	1-247-895-00	CARBON	470K	5%	1/4W	
R1504	1-249-435-11	CARBON	33K	5%	1/4W	
R1505	1-249-433-11	CARBON	22K	5%	1/4W	
R1506	1-247-895-00	CARBON	470K	5%	1/4W	
R1509	1-247-887-00	CARBON	220K	5%	1/4W	
R1510	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1511	1-249-417-11	CARBON	1K	5%	1/4W	
R1512	1-247-725-11	CARBON	10K	5%	1/4W	
R1513	1-249-438-11	CARBON	56K	5%	1/4W	
R1514	1-249-417-11	CARBON	1K	5%	1/4W	
R1516	1-249-432-11	CARBON	18K	5%	1/4W	
R1517	1-249-411-11	CARBON	330	5%	1/4W	
R1518	1-249-429-11	CARBON	10K	5%	1/4W	
R1519	1-247-883-00	CARBON	150K	5%	1/4W	
R1520	1-247-899-11	CARBON	680K	5%	1/4W	
R1521	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1552	1-249-429-11	CARBON	10K	5%	1/4W	
R1553	1-215-917-11	METAL OXIDE	1K	5%	3W	F
R1554	1-249-407-11	CARBON	150	5%	1/4W	
R1602	1-247-722-11	CARBON	5.6K	5%	1/4W	
R1636	1-249-437-11	CARBON	47K	5%	1/4W	
R1637	1-249-437-11	CARBON	47K	5%	1/4W	
R1638	1-249-413-11	CARBON	470	5%	1/4W	
R1639	1-249-441-11	CARBON	100K	5%	1/4W	
R1643	1-247-721-11	CARBON	4.7K	5%	1/4W	
R1664	1-247-718-11	CARBON	2.7K	5%	1/4W	
R5113	1-249-468-11	CARBON	82K	5%	1/4W	
R5501	1-247-725-11	CARBON	10K	5%	1/4W	
R5502	1-249-417-11	CARBON	1K	5%	1/4W	
R5503	1-249-429-11	CARBON	10K	5%	1/4W	
R5504	1-249-430-11	CARBON	12K	5%	1/4W	
R5508	1-247-700-11	CARBON	100	5%	1/4W	
R5509	1-249-425-11	CARBON	4.7K	5%	1/4W	
R5511	1-249-429-11	CARBON	10K	5%	1/4W	
R5512	1-249-460-11	CARBON	15K	5%	1/4W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV502	1-238-016-11	RES, ADJ, CARBON 10K
RV1501	1-238-023-11	RES, ADJ, CARBON 470K
RV1502	1-238-016-11	RES, ADJ, CARBON 10K
RV1503	1-238-017-11	RES, ADJ, CARBON 22K
RV1504	1-238-012-11	RES, ADJ, CARBON 1K
RV1505	1-238-023-11	RES, ADJ, CARBON 470K
RV1506	1-238-017-11	RES, ADJ, CARBON 22K
RV1507	1-238-009-11	RES, ADJ, CARBON 220
RV1508	1-238-015-11	RES, ADJ, CARBON 4.7K
RV1509	1-238-023-11	RES, ADJ, CARBON 470K

<SPARK GAP>

REF.NO.	PART NO.	DESCRIPTION
SG801	1-519-063-XX	DISCHARGING GAP

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION
T801	1-437-090-00	HDT
T802 ⚠	1-439-418-31	TRANSFORMER ASSY, FLYBACK
T803	1-413-059-00	TRANSFORMER, FERRITE (DFT)
T805	1-421-794-11	TRANSFORMER, FERRITE (PMT)

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*A-1347-036-A V BOARD, COMPLETE
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C01	1-126-101-11	ELECT	100MF	20%	16V
C02	1-124-120-11	ELECT	220MF	20%	16V
C03	1-124-119-00	ELECT	330MF	20%	16V
C04	1-124-477-11	ELECT	47MF	20%	16V
C05	1-126-101-11	ELECT	100MF	20%	16V
C06	1-124-120-11	ELECT	220MF	20%	16V
C07	1-136-177-00	FILM	1MF	5%	50V
C08	1-102-951-00	CERAMIC	15PF	5%	50V
C09	1-102-074-00	CERAMIC	0.001MF	10%	50V
C10	1-102-824-00	CERAMIC	470PF	5%	50V
C11	1-106-375-12	MYLAR	0.022MF	10%	100V
C12	1-102-980-00	CERAMIC	270PF	5%	50V
C13	1-102-973-00	CERAMIC	100PF	5%	50V
C14	1-102-951-00	CERAMIC	15PF	5%	50V
C15	1-102-961-00	CERAMIC	27PF	5%	50V
C16	1-106-367-00	MYLAR	0.01MF	10%	100V
C17	1-136-161-00	MYLAR	0.047MF	10%	50V
C18	1-102-953-00	CERAMIC	18PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION				REMARK
C19	1-136-161-00	MYLAR	0.047MF	10%	50V	
C20	1-102-978-00	CERAMIC	220PF	5%	50V	
C21	1-136-163-00	MYLAR	0.068MF	10%	50V	
C24	1-126-101-11	ELECT	100MF	20%	16V	
C25	1-124-477-11	ELECT	47MF	20%	16V	
C27	1-102-820-00	CERAMIC	330PF	5%	50V	
C28	1-102-116-00	CERAMIC	680PF	10%	50V	
C29	1-124-927-11	ELECT	4.7MF	20%	50V	
C38	1-102-816-00	CERAMIC	120PF	5%	50V	
C51	1-136-165-00	MYLAR	0.1MF	10%	50V	
C52	1-136-165-00	MYLAR	0.1MF	10%	50V	
C53	1-136-165-00	MYLAR	0.1MF	10%	50V	
C54	1-136-165-00	MYLAR	0.1MF	10%	50V	
C55	1-136-165-00	MYLAR	0.1MF	10%	50V	
C56	1-136-165-00	MYLAR	0.1MF	10%	50V	
C57	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C58	1-102-074-00	CERAMIC	0.001MF	10%	50V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CNV01	*1-564-506-11	PLUG, CONNECTOR 3P
CNV02	*1-564-508-11	PLUG, CONNECTOR 5P
CNV03	*1-564-509-11	PLUG, CONNECTOR 6P
CNV04	*1-564-506-11	PLUG, CONNECTOR 3P
CNV05	*1-564-505-11	PLUG, CONNECTOR 2P

<NETWORK, RES, THICK FILM>

REF.NO.	PART NO.	DESCRIPTION
CP01	1-235-977-11	NETWORK, RES, THICK FILM
CP02	1-235-977-11	NETWORK, RES, THICK FILM

<TRIMMER>

REF.NO.	PART NO.	DESCRIPTION
CT01	1-141-245-00	TRIMMER, CERAMIC

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D01	8-719-109-89	DIODE RD5.6ES-B2
D02	8-719-110-36	DIODE RD13ES-B2
D03	8-719-911-19	DIODE 1SS119
D04	8-719-109-69	DIODE RD3.6ES-B2

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC01	8-759-972-41	IC MAB8461P-W136
IC02	8-759-972-96	IC SAA5231-V6
IC03	8-759-946-85	IC SAA5243E
IC04	8-759-113-01	IC UPD4364CX-15L

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
JW55	1-410-468-11	INDUCTOR	6.8UH
L01	1-408-411-00	INDUCTOR	15UH
L02	1-410-468-11	INDUCTOR	6.8UH
L03	1-410-468-11	INDUCTOR	6.8UH
L04	1-410-468-11	INDUCTOR	6.8UH
L05	1-410-468-11	INDUCTOR	6.8UH
L06	1-410-468-11	INDUCTOR	6.8UH

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q01	8-729-808-76	TRANSISTOR 2SD1913SA
Q02	8-729-177-42	TRANSISTOR 2SD774-3
Q03	8-729-900-80	TRANSISTOR DTC114ES
Q04	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q05	8-729-177-42	TRANSISTOR 2SD774-3
Q06	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q07	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q09	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q10	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q11	8-729-119-78	TRANSISTOR 2SC2785-HFE

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R01	1-215-867-00	METAL OXIDE	470	5%	1W	F
R02	1-249-425-11	CARBON	4.7K	5%	1/4W	
R04	1-215-867-00	METAL OXIDE	470	5%	1W	F
R05	1-247-700-11	CARBON	100	5%	1/4W	
R06	1-249-417-11	CARBON	1K	5%	1/4W	
R07	1-249-405-11	CARBON	100	5%	1/4W	
R08	1-249-411-11	CARBON	330	5%	1/4W	
R09	1-249-438-11	CARBON	56K	5%	1/4W	
R13	1-249-405-11	CARBON	100	5%	1/4W	
R14	1-249-405-11	CARBON	100	5%	1/4W	
R15	1-247-903-00	CARBON	1M	5%	1/4W	
R16	1-249-425-11	CARBON	4.7K	5%	1/4W	
R17	1-249-417-11	CARBON	1K	5%	1/4W	
R18	1-249-425-11	CARBON	4.7K	5%	1/4W	
R20	1-249-414-11	CARBON	560	5%	1/4W	
R27	1-249-408-11	CARBON	180	5%	1/4W	
R28	1-249-408-11	CARBON	180	5%	1/4W	
R29	1-249-408-11	CARBON	180	5%	1/4W	
R30	1-247-713-11	CARBON	1K	5%	1/4W	
R31	1-247-713-11	CARBON	1K	5%	1/4W	
R32	1-247-713-11	CARBON	1K	5%	1/4W	
R37	1-249-405-11	CARBON	100	5%	1/4W	
R38	1-249-416-11	CARBON	820	5%	1/4W	
R40	1-249-425-11	CARBON	4.7K	5%	1/4W	
R41	1-249-413-11	CARBON	470	5%	1/4W	
R43	1-249-420-11	CARBON	1.8K	5%	1/4W	
R45	1-247-713-11	CARBON	1K	5%	1/4W	
R47	1-247-699-11	CARBON	82	5%	1/4W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV01	1-228-991-00	RES, ADJ, CARBON 2.2K
	*3-710-578-01	COVER, VOLUME, 6 MOLD; RV01

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION
X01	1-527-734-00	VIBRATOR, CRYSTAL
X02	1-567-905-11	VIBRATOR, CRYSTAL
X03	1-567-686-11	OSCILLATOR, CERAMIC

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*1-628-824-11 H3 BOARD
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<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CNH03	*1-564-510-11	PLUG, CONNECTOR 7P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D1	8-719-812-41	DIODE TLR124
	*4-364-023-00	HOLDER, LED; D1
D3	8-719-812-41	DIODE TLR124
	*4-364-023-00	HOLDER, LED; D3
D4	8-719-812-41	DIODE TLR124

H3 K

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*4-364-023-00	HOLDER, LED; D4			

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1	8-741-138-70	IC BX-1387	

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*A-1385-049-A K BOARD, COMPLETE
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*4-377-007-01 CASE (UPPER LID), SHIELD
*4-377-009-01 CASE (MAIN), SHIELD

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C00A	1-101-005-00	CERAMIC	0.022MF		50V
C001	1-126-103-11	ELECT	470MF	20%	16V
C002	1-126-103-11	ELECT	470MF	20%	16V
C005	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C006	1-101-004-00	CERAMIC	0.01MF		50V
C007	1-102-953-00	CERAMIC	18PF	5%	50V
C008	1-102-961-00	CERAMIC	27PF	5%	50V
C009	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C010	1-102-980-00	CERAMIC	270PF	5%	50V
C011	1-106-383-00	MYLAR	0.047MF	10%	100V
C012	1-136-165-00	MYLAR	0.1MF	10%	50V
C013	1-101-361-00	CERAMIC	150PF	5%	50V
C014	1-126-101-11	ELECT	100MF	20%	16V
C015	1-101-004-00	CERAMIC	0.01MF		50V
C017	1-124-556-11	ELECT	2200MF	20%	16V
C018	1-126-101-11	ELECT	100MF	20%	16V
C020	1-124-637-11	ELECT	1000MF	20%	50V
C025	1-124-477-11	ELECT	47MF	20%	16V
C026	1-124-477-11	ELECT	47MF	20%	16V
C027	1-124-463-00	ELECT	0.1MF	20%	50V
C028	1-124-477-11	ELECT	47MF	20%	16V
C029	1-123-875-11	ELECT	10MF	20%	50V
C032	1-136-165-00	MYLAR	0.1MF	10%	50V
C061	1-101-004-00	CERAMIC	0.01MF		50V
C090	1-102-074-00	CERAMIC	0.001MF	10%	50V
C201	1-124-477-11	ELECT	47MF	20%	16V
C202	1-124-902-00	ELECT	0.47MF	20%	50V
C203	1-124-477-11	ELECT	47MF	20%	16V
C204	1-124-902-00	ELECT	0.47MF	20%	50V
C205	1-124-927-11	ELECT	4.7MF	20%	50V
C206	1-126-101-11	ELECT	100MF	20%	16V
C206	1-126-101-11	ELECT	100MF	20%	16V
C207	1-124-927-11	ELECT	4.7MF	20%	50V
C208	1-124-902-00	ELECT	0.47MF	20%	50V
C209	1-102-114-00	CERAMIC	470PF	10%	50V
C210	1-102-114-00	CERAMIC	470PF	10%	50V
C211	1-124-925-11	ELECT	2.2MF	20%	50V
C212	1-124-925-11	ELECT	2.2MF	20%	50V
C213	1-126-233-11	ELECT	22MF	20%	50V
C214	1-106-363-00	MYLAR	0.0068MF	10%	100V
C215	1-124-119-00	ELECT	330MF	20%	16V
C217	1-106-363-00	MYLAR	0.0068MF	10%	100V
C218	1-106-375-12	MYLAR	0.022MF	10%	100V
C219	1-106-375-12	MYLAR	0.022MF	10%	100V
C220	1-106-355-12	MYLAR	0.0033MF	10%	100V
C221	1-106-355-12	MYLAR	0.0033MF	10%	100V
C222	1-106-375-12	MYLAR	0.022MF	10%	100V
C223	1-106-375-12	MYLAR	0.022MF	10%	100V
C224	1-106-367-00	MYLAR	0.01MF	10%	100V
C225	1-136-173-00	FILM	0.47MF	5%	50V
C226	1-136-173-00	FILM	0.47MF	5%	50V
C227	1-106-375-12	MYLAR	0.022MF	10%	100V
C228	1-106-379-12	MYLAR	0.033MF	10%	100V
C229	1-106-371-00	MYLAR	0.015MF	10%	100V
C230	1-106-371-00	MYLAR	0.015MF	10%	100V
C231	1-124-902-00	ELECT	0.47MF	20%	50V
C232	1-123-875-11	ELECT	10MF	20%	50V
C234	1-102-114-00	CERAMIC	470PF	10%	50V
C237	1-102-114-00	CERAMIC	470PF	10%	50V
C239	1-124-902-00	ELECT	0.47MF	20%	50V
C240	1-124-927-11	ELECT	4.7MF	20%	50V
C241	1-124-927-11	ELECT	4.7MF	20%	50V
C242	1-102-963-00	CERAMIC	33PF	5%	50V
C243	1-106-359-00	MYLAR	0.0047MF	10%	100V
C244	1-106-343-00	MYLAR	0.001MF	10%	100V
C245	1-124-119-00	ELECT	330MF	20%	16V
C246	1-124-477-11	ELECT	47MF	20%	16V
C247	1-102-963-00	CERAMIC	33PF	5%	50V
C248	1-102-963-00	CERAMIC	33PF	5%	50V
C249	1-123-875-11	ELECT	10MF	20%	50V
C250	1-124-463-00	ELECT	0.1MF	20%	50V
C251	1-136-169-00	FILM	0.22MF	5%	50V
C252	1-123-875-11	ELECT	10MF	20%	50V
C253	1-124-607-11	ELECT	2200MF	20%	50V
C254	1-123-875-11	ELECT	10MF	20%	50V
C255	1-124-463-00	ELECT	0.1MF	20%	50V
C256	1-136-169-00	FILM	0.22MF	5%	50V
C257	1-123-875-11	ELECT	10MF	20%	50V
C258	1-124-607-11	ELECT	2200MF	20%	50V
C259	1-136-159-00	FILM	0.033MF	5%	50V
C260	1-136-159-00	FILM	0.033MF	5%	50V
C290	1-102-112-00	CERAMIC	330PF	10%	50V
C291	1-102-112-00	CERAMIC	330PF	10%	50V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CNK01	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)
CNK02	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)
CNK03	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P
CNK04	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P
CNK05	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P
CNK06	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P
CNK07	*1-564-507-11	PLUG, CONNECTOR 4P
CNK08	*1-564-513-11	PLUG, CONNECTOR 10P
CNK09	*1-564-514-11	PLUG, CONNECTOR 11P
CNK11	*1-564-508-11	PLUG, CONNECTOR 5P
CNK12	*1-564-506-11	PLUG, CONNECTOR 3P
CNK16	*1-564-510-11	PLUG, CONNECTOR 7P
CNK17	*1-564-510-11	PLUG, CONNECTOR 7P
CNK18	*1-564-507-11	PLUG, CONNECTOR 4P
CNK20	*1-564-512-11	PLUG, CONNECTOR 9P
CNK22	*1-564-505-11	PLUG, CONNECTOR 2P
CNK23	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P
CNK24	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D002	8-719-109-89	DIODE RD5.6ES-B2
D003	8-719-109-89	DIODE RD5.6ES-B2
D004	8-719-911-19	DIODE 1SS119
D005	8-719-911-19	DIODE 1SS119
D006	8-719-911-19	DIODE 1SS119

REF.NO.	PART NO.	DESCRIPTION				REMARK
D007	8-719-911-19	DIODE 1SS119				
D011	8-719-109-71	DIODE RD3.9ES-B1				
D012	8-719-911-19	DIODE 1SS119				
D013	8-719-911-19	DIODE 1SS119				
D201	8-719-110-14	DIODE RD9.1ES-B3				
D202	8-719-110-14	DIODE RD9.1ES-B3				
D203	8-719-110-04	DIODE RD7.5ES-B3				
D204	8-719-110-04	DIODE RD7.5ES-B3				
D205	8-719-911-19	DIODE 1SS119				
D206	8-719-911-19	DIODE 1SS119				
D207	8-719-911-19	DIODE 1SS119				
D208	8-719-911-19	DIODE 1SS119				
D209	8-719-911-19	DIODE 1SS119				
		<IC>				
IC001	8-759-631-99	IC M37100M8-616SP				
IC003	8-759-972-43	IC PCD8582				
IC005	8-759-157-40	IC UPC574J				
IC201	8-759-013-17	IC TDA6200				
IC202	8-759-132-40	IC UPC324C				
IC203	8-759-922-40	IC LM1875T				
IC204	8-759-922-40	IC LM1875T				
		<COIL>				
L001	1-410-476-11	INDUCTOR	33UH			
		<TRANSISTOR>				
Q001	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q002	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q003	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q004	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q005	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q006	8-729-808-76	TRANSISTOR 2SD1913SA-Q				
Q009	8-729-900-89	TRANSISTOR DTC144ES				
Q013	8-729-900-89	TRANSISTOR DTC144ES				
Q014	8-729-900-89	TRANSISTOR DTC144ES				
Q017	8-729-900-89	TRANSISTOR DTC144ES				
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q202	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q203	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q204	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q205	8-729-900-89	TRANSISTOR DTC144ES				
Q206	8-729-115-30	TRANSISTOR 2SK105A-30				
Q207	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q208	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q209	8-729-900-89	TRANSISTOR DTC144ES				
Q220	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R001	1-249-429-11	CARBON	10K	5%	1/4W	
R003	1-249-421-11	CARBON	2.2K	5%	1/4W	
R004	1-249-421-11	CARBON	2.2K	5%	1/4W	
R005	1-249-421-11	CARBON	2.2K	5%	1/4W	
R006	1-249-421-11	CARBON	2.2K	5%	1/4W	
R007	1-249-421-11	CARBON	2.2K	5%	1/4W	
R008	1-249-421-11	CARBON	2.2K	5%	1/4W	
R009	1-249-421-11	CARBON	2.2K	5%	1/4W	
R010	1-249-425-11	CARBON	4.7K	5%	1/4W	
R011	1-247-704-11	CARBON	220	5%	1/4W	
R012	1-249-409-11	CARBON	220	5%	1/4W	
R013	1-247-713-11	CARBON	1K	5%	1/4W	
R014	1-247-713-11	CARBON	1K	5%	1/4W	
R015	1-247-713-11	CARBON	1K	5%	1/4W	
R016	1-247-713-11	CARBON	1K	5%	1/4W	
R017	1-249-409-11	CARBON	220	5%	1/4W	
R018	1-249-413-11	CARBON	470	5%	1/4W	
R019	1-249-431-11	CARBON	15K	5%	1/4W	
R020	1-249-421-11	CARBON	2.2K	5%	1/4W	
R024	1-249-437-11	CARBON	47K	5%	1/4W	
R025	1-249-437-11	CARBON	47K	5%	1/4W	
R026	1-249-405-11	CARBON	100	5%	1/4W	
R027	1-249-405-11	CARBON	100	5%	1/4W	
R028	1-249-417-11	CARBON	1K	5%	1/4W	
R029	1-249-417-11	CARBON	1K	5%	1/4W	
R030	1-249-417-11	CARBON	1K	5%	1/4W	
R031	1-249-429-11	CARBON	10K	5%	1/4W	
R032	1-249-433-11	CARBON	22K	5%	1/4W	
R033	1-249-429-11	CARBON	10K	5%	1/4W	
R034	1-249-417-11	CARBON	1K	5%	1/4W	
R035	1-249-429-11	CARBON	10K	5%	1/4W	
R039	1-249-409-11	CARBON	220	5%	1/4W	
R040	1-249-417-11	CARBON	1K	5%	1/4W	
R042	1-249-429-11	CARBON	10K	5%	1/4W	
R043	1-247-707-11	CARBON	390	5%	1/4W	
R044	1-247-707-11	CARBON	390	5%	1/4W	
R045	1-249-429-11	CARBON	10K	5%	1/4W	
R046	1-249-435-11	CARBON	33K	5%	1/4W	
R047	1-249-423-11	CARBON	3.3K	5%	1/4W	
R048	1-249-441-11	CARBON	100K	5%	1/4W	
R049	1-249-413-11	CARBON	470	5%	1/4W	
R050	1-249-417-11	CARBON	1K	5%	1/4W	
R051	1-249-419-11	CARBON	1.5K	5%	1/4W	
R052	1-249-460-11	CARBON	15K	5%	1/4W	
R053	1-249-429-11	CARBON	10K	5%	1/4W	
R054	1-249-411-11	CARBON	330	5%	1/4W	
R055	1-249-417-11	CARBON	1K	5%	1/4W	
R056	1-249-417-11	CARBON	1K	5%	1/4W	
R057	1-249-417-11	CARBON	1K	5%	1/4W	
R058	1-249-417-11	CARBON	1K	5%	1/4W	
R059	1-249-417-11	CARBON	1K	5%	1/4W	
R060	1-249-417-11	CARBON	1K	5%	1/4W	
R061	1-249-417-11	CARBON	1K	5%	1/4W	
R063	1-249-409-11	CARBON	220	5%	1/4W	
R064	1-249-429-11	CARBON	10K	5%	1/4W	
R065	1-249-429-11	CARBON	10K	5%	1/4W	
R070	1-249-413-11	CARBON	470	5%	1/4W	
R077	1-249-421-11	CARBON	2.2K	5%	1/4W	
R078	1-249-429-11	CARBON	10K	5%	1/4W	
R079	1-249-422-11	CARBON	2.7K	5%	1/4W	
R080	1-249-422-11	CARBON	2.7K	5%	1/4W	
R081	1-249-429-11	CARBON	10K	5%	1/4W	
R085	1-249-417-11	CARBON	1K	5%	1/4W	
R086	1-249-409-11	CARBON	220	5%	1/4W	
R090	1-249-429-11	CARBON	10K	5%	1/4W	
R093	1-247-721-11	CARBON	4.7K	5%	1/4W	
R093	1-249-424-11	CARBON	3.9K	5%	1/4W	
R095	1-249-425-11	CARBON	4.7K	5%	1/4W	
R201	1-249-441-11	CARBON	100K	5%	1/4W	
R202	1-249-425-11	CARBON	4.7K	5%	1/4W	
R203	1-249-441-11	CARBON	100K	5%	1/4W	
R204	1-249-435-11	CARBON	33K	5%	1/4W	
R205	1-249-435-11	CARBON	33K	5%	1/4W	
R206	1-249-423-11	CARBON	3.3K	5%	1/4W	
R207	1-249-423-11	CARBON	3.3K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R209	1-249-433-11	CARBON	22K	5%	1/4W	
R210	1-249-431-11	CARBON	15K	5%	1/4W	
R211	1-249-441-11	CARBON	100K	5%	1/4W	
R212	1-249-433-11	CARBON	22K	5%	1/4W	
R213	1-249-431-11	CARBON	15K	5%	1/4W	
R214	1-247-704-11	CARBON	220	5%	1/4W	
R215	1-249-433-11	CARBON	22K	5%	1/4W	
R216	1-249-433-11	CARBON	22K	5%	1/4W	
R217	1-249-431-11	CARBON	15K	5%	1/4W	
R218	1-247-704-11	CARBON	220	5%	1/4W	
R219	1-249-429-11	CARBON	10K	5%	1/4W	
R220	1-249-425-11	CARBON	4.7K	5%	1/4W	
R221	1-249-423-11	CARBON	3.3K	5%	1/4W	
R222	1-249-439-11	CARBON	68K	5%	1/4W	
R223	1-249-413-11	CARBON	470	5%	1/4W	
R224	1-249-413-11	CARBON	470	5%	1/4W	
R225	1-249-417-11	CARBON	1K	5%	1/4W	
R226	1-249-417-11	CARBON	1K	5%	1/4W	
R227	1-249-441-11	CARBON	100K	5%	1/4W	
R228	1-249-423-11	CARBON	3.3K	5%	1/4W	
R228	1-249-431-11	CARBON	15K	5%	1/4W	
R229	1-249-441-11	CARBON	100K	5%	1/4W	
R230	1-249-441-11	CARBON	100K	5%	1/4W	
R231	1-249-439-11	CARBON	68K	5%	1/4W	
R232	1-249-441-11	CARBON	100K	5%	1/4W	
R233	1-249-437-11	CARBON	47K	5%	1/4W	
R234	1-249-437-11	CARBON	47K	5%	1/4W	
R235	1-249-411-11	CARBON	330	5%	1/4W	
R240	1-249-405-11	CARBON	100	5%	1/4W	
R241	1-249-437-11	CARBON	47K	5%	1/4W	
R242	1-249-437-11	CARBON	47K	5%	1/4W	
R243	1-249-425-11	CARBON	4.7K	5%	1/4W	
R244	1-249-405-11	CARBON	100	5%	1/4W	
R245	1-249-437-11	CARBON	47K	5%	1/4W	
R246	1-249-437-11	CARBON	47K	5%	1/4W	
R247	1-249-425-11	CARBON	4.7K	5%	1/4W	
R248	1-249-433-11	CARBON	22K	5%	1/4W	
R249	1-249-433-11	CARBON	22K	5%	1/4W	
R250	1-249-429-11	CARBON	10K	5%	1/4W	
R251	1-247-895-00	CARBON	470K	5%	1/4W	
R252	1-249-433-11	CARBON	22K	5%	1/4W	
R253	1-249-433-11	CARBON	22K	5%	1/4W	
R254	1-249-433-11	CARBON	22K	5%	1/4W	
R255	1-249-433-11	CARBON	22K	5%	1/4W	
R257	1-249-433-11	CARBON	22K	5%	1/4W	
R258	1-249-433-11	CARBON	22K	5%	1/4W	
R259	1-249-429-11	CARBON	10K	5%	1/4W	
R260	1-249-429-11	CARBON	10K	5%	1/4W	
R261	1-249-433-11	CARBON	22K	5%	1/4W	
R262	1-249-433-11	CARBON	22K	5%	1/4W	
R263	1-249-425-11	CARBON	4.7K	5%	1/4W	
R264	1-249-433-11	CARBON	22K	5%	1/4W	
R265	1-249-441-11	CARBON	100K	5%	1/4W	
R266	1-249-441-11	CARBON	100K	5%	1/4W	
R267	1-247-725-11	CARBON	10K	5%	1/4W	
R268	1-249-423-11	CARBON	3.3K	5%	1/4W	
R269	1-249-433-11	CARBON	22K	5%	1/4W	
R270	1-249-437-11	CARBON	47K	5%	1/4W	
R271	1-249-433-11	CARBON	22K	5%	1/4W	
R272	1-249-433-11	CARBON	22K	5%	1/4W	
R273	1-249-462-11	CARBON	22K	5%	1/4W	
R274	1-249-381-11	CARBON	1	5%	1/4W	F
R276	1-249-429-11	CARBON	10K	5%	1/4W	
R277	1-247-891-00	CARBON	330K	5%	1/4W	
R278	1-249-433-11	CARBON	22K	5%	1/4W	
R279	1-249-462-11	CARBON	22K	5%	1/4W	
R280	1-249-433-11	CARBON	22K	5%	1/4W	
R281	1-249-381-11	CARBON	1	5%	1/4W	F
R283	1-249-429-11	CARBON	10K	5%	1/4W	
R284	1-247-891-00	CARBON	330K	5%	1/4W	
R285	1-247-713-11	CARBON	1K	5%	1/4W	
R288	1-249-423-11	CARBON	3.3K	5%	1/4W	
R290	1-249-433-11	CARBON	22K	5%	1/4W	
R291	1-249-423-11	CARBON	3.3K	5%	1/4W	
R292	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R295	1-249-433-11	CARBON	22K	5%	1/4W	
R654	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R655	1-215-924-00	METAL OXIDE	15K	5%	3W	F
JW248	1-247-713-11	CARBON	1K	5%	1/4W	

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION
X001	1-567-686-11	OSCILLATOR, CERAMIC

****

*A-1388-083-A J1 BOARD, COMPLETE
****

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C1401	1-123-875-11	ELECT	10MF	20%	50V
C1402	1-126-103-11	ELECT	470MF	20%	16V
C1403	1-102-824-00	CERAMIC	470PF	5%	50V
C1404	1-124-902-00	ELECT	0.47MF	20%	50V
C1405	1-102-824-00	CERAMIC	470PF	5%	50V
C1406	1-124-902-00	ELECT	0.47MF	20%	50V
C1407	1-124-477-11	ELECT	47MF	20%	16V
C1408	1-126-101-11	ELECT	100MF	20%	16V
C1409	1-126-233-11	ELECT	22MF	20%	50V
C1410	1-123-621-71	ELECT	10MF	20%	25V
C1411	1-123-621-71	ELECT	10MF	20%	25V
C1412	1-124-963-11	ELECT	33MF	20%	16V
C1413	1-126-101-11	ELECT	100MF	20%	16V
C1414	1-123-621-71	ELECT	10MF	20%	25V
C1415	1-124-902-00	ELECT	0.47MF	20%	50V
C1416	1-124-902-00	ELECT	0.47MF	20%	50V
C1417	1-124-120-11	ELECT	220MF	20%	16V
C1418	1-102-112-00	CERAMIC	330PF	10%	50V
C1419	1-102-112-00	CERAMIC	330PF	10%	50V
C1420	1-124-242-00	ELECT	33MF	20%	25V
C1421	1-124-963-11	ELECT	33MF	20%	16V
C1427	1-101-003-00	CERAMIC	0.0047MF		50V
C1428	1-101-003-00	CERAMIC	0.0047MF		50V
C1429	1-102-824-00	CERAMIC	470PF	5%	50V
C1430	1-102-824-00	CERAMIC	470PF	5%	50V
C1431	1-126-101-11	ELECT	100MF	20%	16V
C1432	1-126-101-11	ELECT	100MF	20%	16V
C1433	1-126-101-11	ELECT	100MF	20%	16V
C1440	1-123-875-11	ELECT	10MF	20%	50V
C1441	1-123-621-71	ELECT	10MF	20%	25V
C1442	1-102-824-00	CERAMIC	470PF	5%	50V
C1443	1-124-902-00	ELECT	0.47MF	20%	50V
C1444	1-102-824-00	CERAMIC	470PF	5%	50V
C1445	1-124-902-00	ELECT	0.47MF	20%	50V
C1449	1-124-477-11	ELECT	47MF	20%	16V
C1451	1-124-477-11	ELECT	47MF	20%	16V
C1452	1-102-976-00	CERAMIC	180PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1455	1-124-477-11	ELECT	47MF	20%	16V	
		<CONNECTOR>				
CNJ01	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P				
CNJ02	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P				
CNJ03	1-568-016-11	SOCKET 21P				
CNJ04	1-565-931-11	TERMINAL BLOCK, S 3P				
CNJ05	1-565-840-11	PIN JACK BLOCK 6P				
CNJ06	1-537-187-11	TERMINAL, PUSH (4P)				
CNJ07	*1-564-519-11	PLUG, CONNECTOR 4P				
		<DIODE>				
D1401	8-719-911-19	DIODE 1SS119				
D1403	8-719-110-04	DIODE RD7.5ES-B3				
D1406	8-719-110-04	DIODE RD7.5ES-B3				
D1407	8-719-110-18	DIODE RD10ES-B3				
D1408	8-719-110-14	DIODE RD9.1ES-B3				
D1409	8-719-110-14	DIODE RD9.1ES-B3				
D1410	8-719-110-14	DIODE RD9.1ES-B3				
D1418	8-719-110-04	DIODE RD7.5ES-B3				
D1419	8-719-911-19	DIODE 1SS119				
D1421	8-719-110-04	DIODE RD7.5ES-B3				
D1422	8-719-110-04	DIODE RD7.5ES-B3				
D1423	8-719-110-04	DIODE RD7.5ES-B3				
D1424	8-719-911-19	DIODE 1SS119				
D1425	8-719-911-19	DIODE 1SS119				
D1426	8-719-911-19	DIODE 1SS119				
D1427	8-719-911-19	DIODE 1SS119				
D1428	8-719-911-19	DIODE 1SS119				
D1429	8-719-911-19	DIODE 1SS119				
		<IC>				
IC1401	8-752-032-27	IC CXA1114P				
IC1404	8-759-800-81	IC LA7016				
		<COIL>				
L1401	1-410-470-11	INDUCTOR	10UH			
L1402	1-410-470-11	INDUCTOR	10UH			
L1405	1-410-470-11	INDUCTOR	10UH			
L1406	1-410-470-11	INDUCTOR	10UH			
		<TRANSISTOR>				
Q1401	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q1402	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q1405	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1406	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1407	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q1408	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1409	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1410	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R1401	1-249-435-11	CARBON	33K	5%	1/4W	
R1402	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1403	1-249-437-11	CARBON	47K	5%	1/4W	
R1404	1-249-413-11	CARBON	470	5%	1/4W	
R1407	1-247-895-00	CARBON	470K	5%	1/4W	
R1408	1-249-434-11	CARBON	27K	5%	1/4W	
R1409	1-249-411-11	CARBON	330	5%	1/4W	
R1410	1-249-434-11	CARBON	27K	5%	1/4W	
R1411	1-249-411-11	CARBON	330	5%	1/4W	
R1412	1-249-437-11	CARBON	47K	5%	1/4W	
R1413	1-247-895-00	CARBON	470K	5%	1/4W	
R1414	1-249-437-11	CARBON	47K	5%	1/4W	
R1417	1-249-404-00	CARBON	82	5%	1/4W	
R1418	1-247-738-11	CARBON	82	5%	1/2W	F
R1419	1-249-417-11	CARBON	1K	5%	1/4W	
R1420	1-249-417-11	CARBON	1K	5%	1/4W	
R1421	1-249-416-11	CARBON	820	5%	1/4W	
R1422	1-249-417-11	CARBON	1K	5%	1/4W	
R1423	1-249-434-11	CARBON	27K	5%	1/4W	
R1424	1-249-434-11	CARBON	27K	5%	1/4W	
R1425	1-249-410-11	CARBON	270	5%	1/4W	
R1426	1-249-414-11	CARBON	560	5%	1/4W	
R1427	1-249-417-11	CARBON	1K	5%	1/4W	
R1428	1-247-895-00	CARBON	470K	5%	1/4W	
R1429	1-247-895-00	CARBON	470K	5%	1/4W	
R1430	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1433	1-249-409-11	CARBON	220	5%	1/4W	
R1434	1-247-698-11	CARBON	68	5%	1/4W	F
R1435	1-249-417-11	CARBON	1K	5%	1/4W	
R1436	1-249-433-11	CARBON	22K	5%	1/4W	
R1437	1-249-429-11	CARBON	10K	5%	1/4W	
R1440	1-249-416-11	CARBON	820	5%	1/4W	
R1441	1-249-416-11	CARBON	820	5%	1/4W	
R1442	1-249-437-11	CARBON	47K	5%	1/4W	
R1443	1-249-437-11	CARBON	47K	5%	1/4W	
R1444	1-249-409-11	CARBON	220	5%	1/4W	
R1445	1-249-409-11	CARBON	220	5%	1/4W	
R1447	1-249-409-11	CARBON	220	5%	1/4W	
R1448	1-249-409-11	CARBON	220	5%	1/4W	
R1449	1-249-405-11	CARBON	100	5%	1/4W	
R1450	1-249-404-00	CARBON	82	5%	1/4W	
R1452	1-249-409-11	CARBON	220	5%	1/4W	
R1453	1-249-404-00	CARBON	82	5%	1/4W	
R1455	1-247-895-00	CARBON	470K	5%	1/4W	
R1456	1-249-434-11	CARBON	27K	5%	1/4W	
R1457	1-247-895-00	CARBON	470K	5%	1/4W	
R1458	1-249-463-11	CARBON	27K	5%	1/4W	
R1463	1-249-417-11	CARBON	1K	5%	1/4W	
R1464	1-249-404-00	CARBON	82	5%	1/4W	
R1465	1-249-405-11	CARBON	100	5%	1/4W	
R1467	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1468	1-249-405-11	CARBON	100	5%	1/4W	
R1469	1-249-429-11	CARBON	10K	5%	1/4W	
R1473	1-249-440-11	CARBON	82K	5%	1/4W	
R1481	1-249-404-00	CARBON	82	5%	1/4W	
R1483	1-249-403-11	CARBON	68	5%	1/4W	
R1484	1-249-413-11	CARBON	470	5%	1/4W	
R1485	1-249-430-11	CARBON	12K	5%	1/4W	
R1486	1-247-804-11	CARBON	75	5%	1/4W	
R1487	1-249-399-11	CARBON	33	5%	1/4W	
R1488	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1489	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1501	1-249-428-11	CARBON	8.2K	5%	1/4W	
		<SWITCH>				
S1401	1-571-362-11	SWITCH, TACTIL				
S1402	1-571-362-11	SWITCH, TACTIL				

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK

MISCELLANEOUS
****

REF.NO.	PART NO.	DESCRIPTION	REMARK
	1-466-096-11	PANEL BLOCK	
	1-466-097-11	PANEL BLOCK	
	⚠ 1-451-313-12	DEFLECTION YOKE (SY-191)	
	1-452-032-00	MAGNET, DISK; 10MM ϕ	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
	⚠ 1-563-204-13	SOCKET, ANTENNA (PAL/SECAM)	
	⚠ 1-574-380-11	CORD, POWER (WITH CONNECTOR)	
L901	⚠ 1-426-408-11	COIL, DEMAGNETIZATION	
V901	⚠ 8-733-821-05	PICTURE TUBE (A68JYK10X)	

****

ACCESSORIES AND PACKING MATERIALS
****

PART NO.	DESCRIPTION	REMARK
A-1470-864-A	COMMANDER ASSY (RM-679MT)	
⚠ 1-417-149-11	MIXER, U/V	
1-506-401-00	ADAPTOR, CONVERSION	
1-559-238-11	CORD, SPEAKER CONNECTION	
3-786-945-51	MANUAL, INSTRUCTION	
*4-381-155-01	BAG, PROTECTION	
*4-383-108-01	BAND	
*4-391-747-01	CUSHION (UPPER) (ASSY)	
*4-391-748-01	CUSHION (LOWER) (ASSY)	
*4-392-422-01	TRAY .	
*4-392-426-01	INDIVIDUAL CARTON	

9-964-238-01

Sony Corporation
TV Group

English
89BU0407-1
Printed in Japan

KV-2900T
RM-679MT/SS-XT291

SONY
SERVICE MANUAL

GE Model
Serial No. 2,001,041 and later
Chassis No. SCC-C41A-A

SUPPLEMENT-1

File this supplement with the Service Manual.

INTRODUCTION

A, K, J1 Boards modification

[dashed box] : modified portion

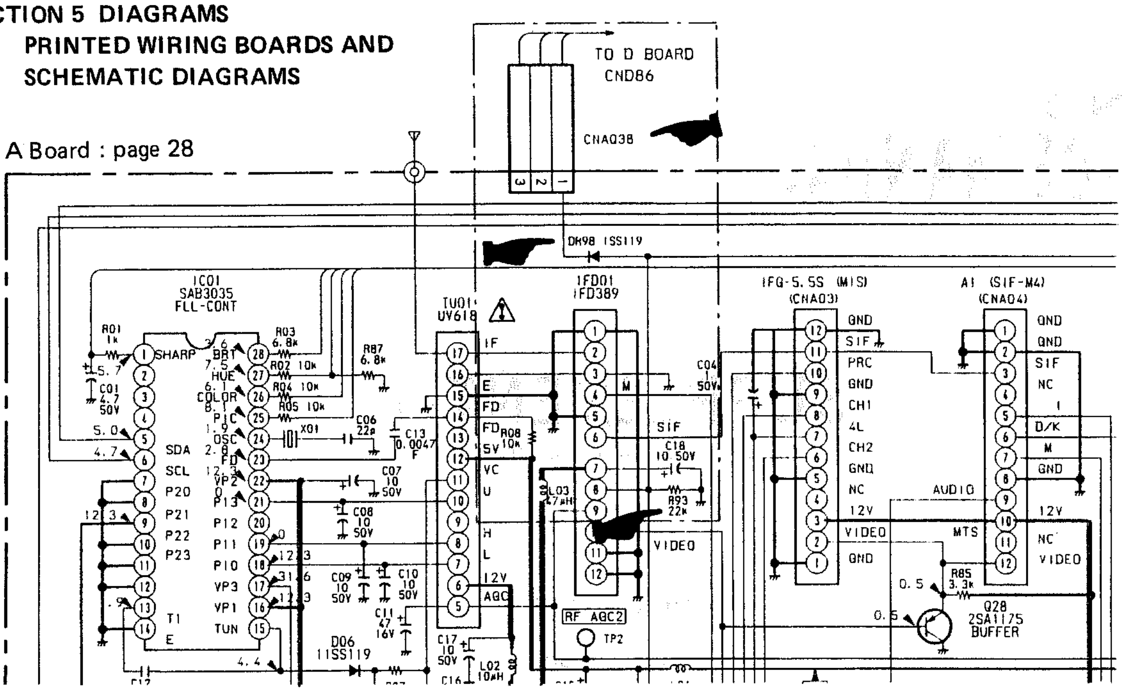
[pointing hand] : Indicate modified portion

MICROFILM

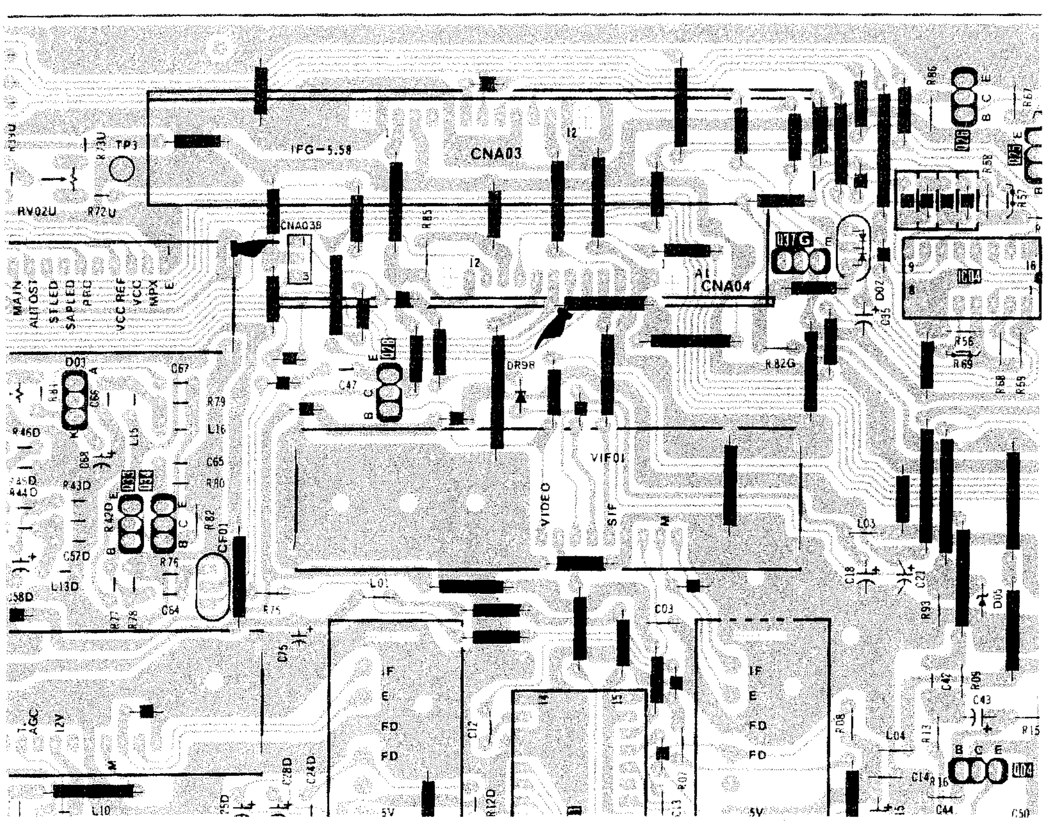
SECTION 5 DIAGRAMS

5-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

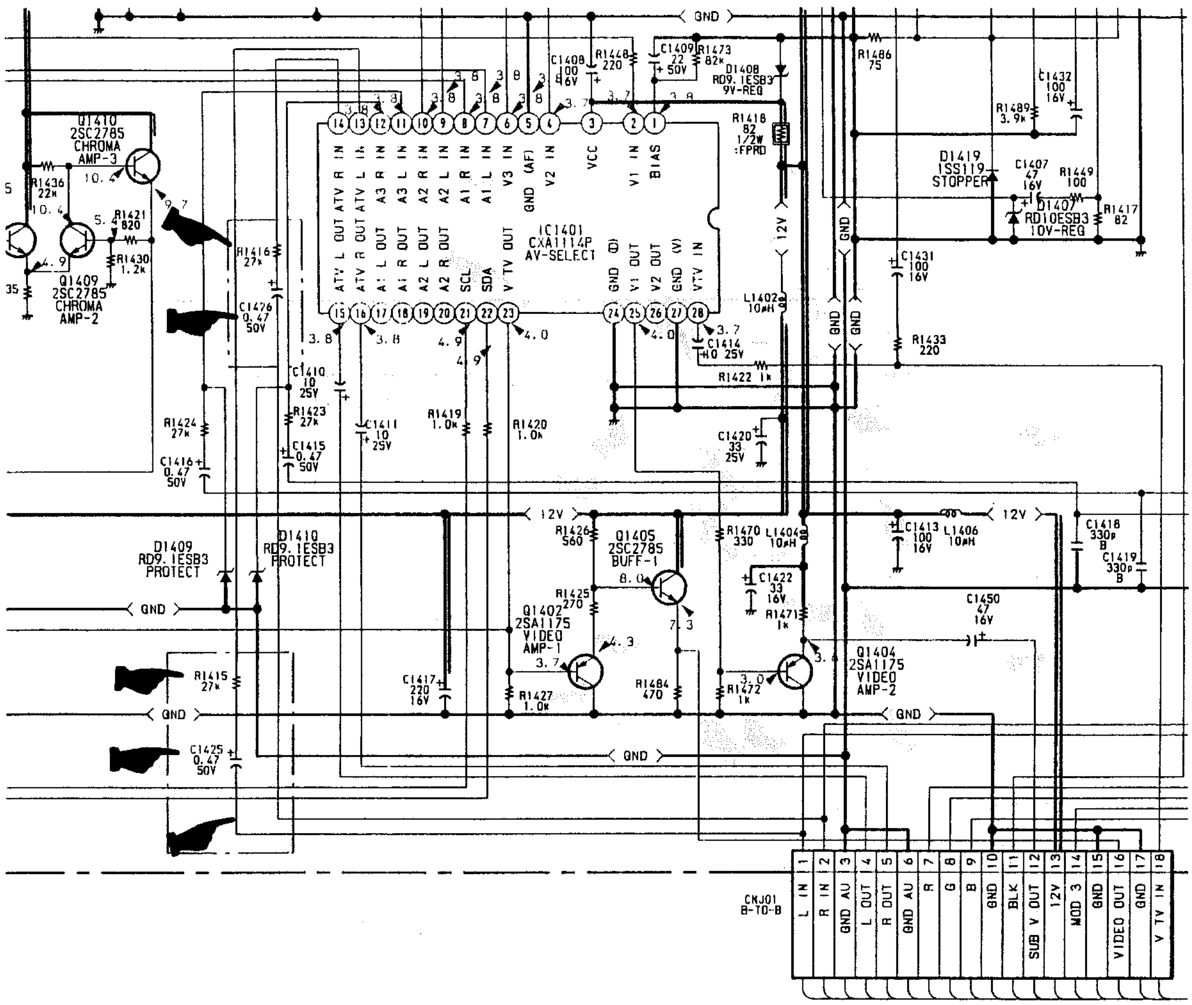
A Board : page 28



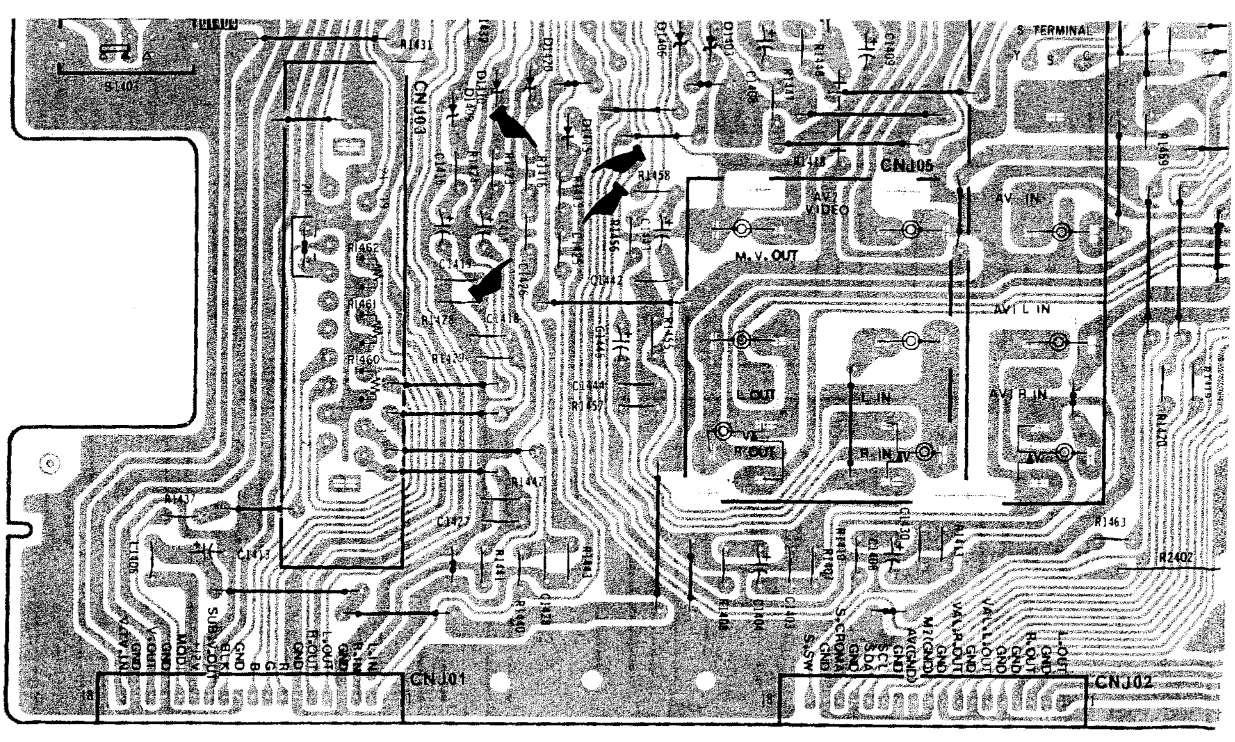
A Board : page 30



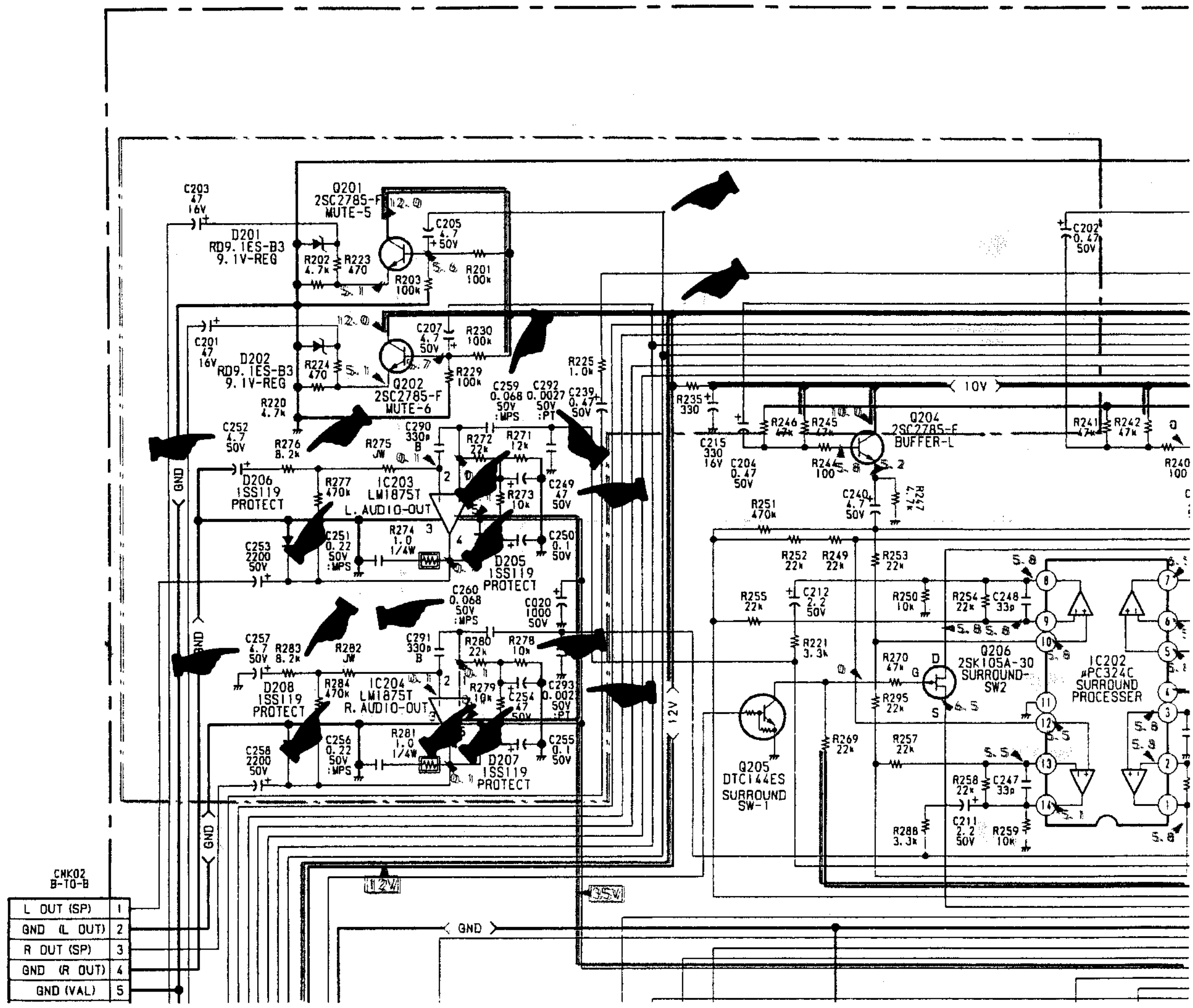
J1 Board : page 37, 38



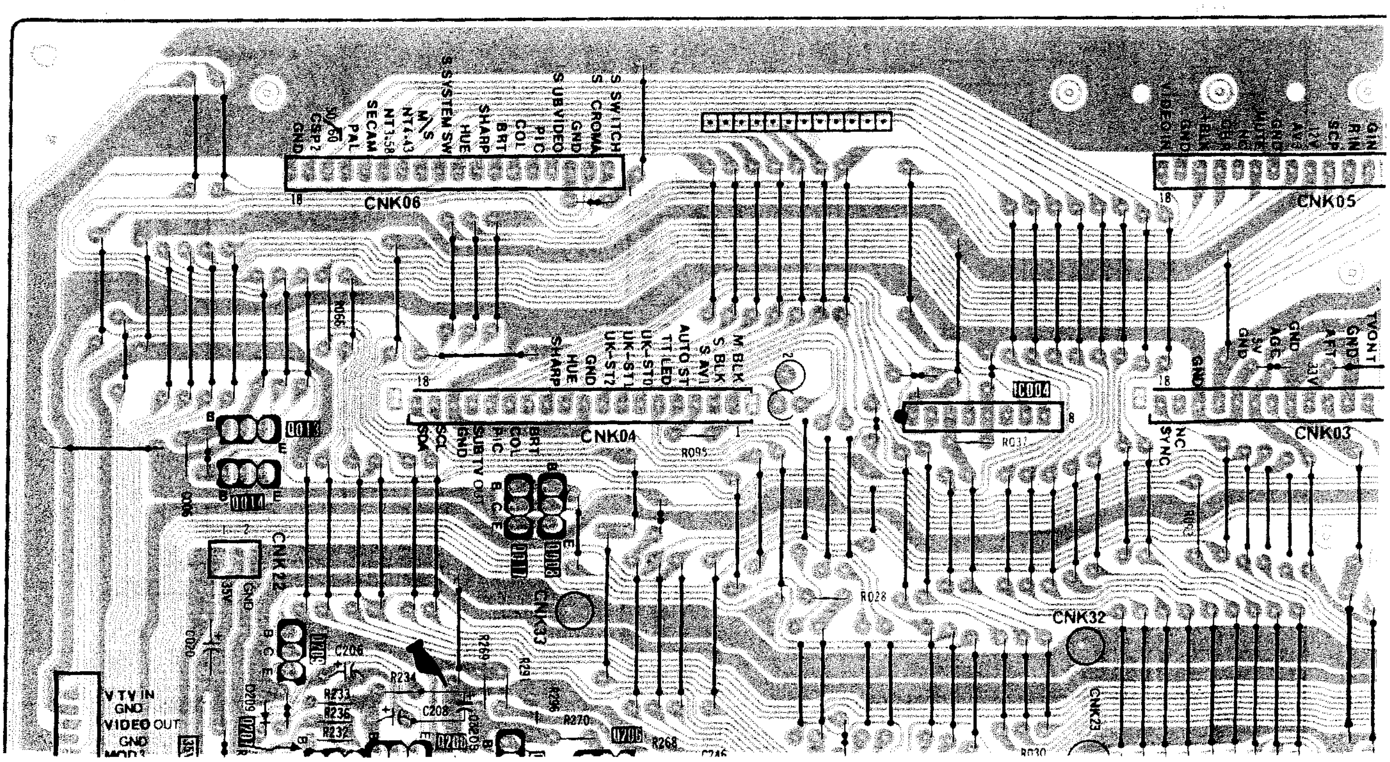
J1 Board : page 41



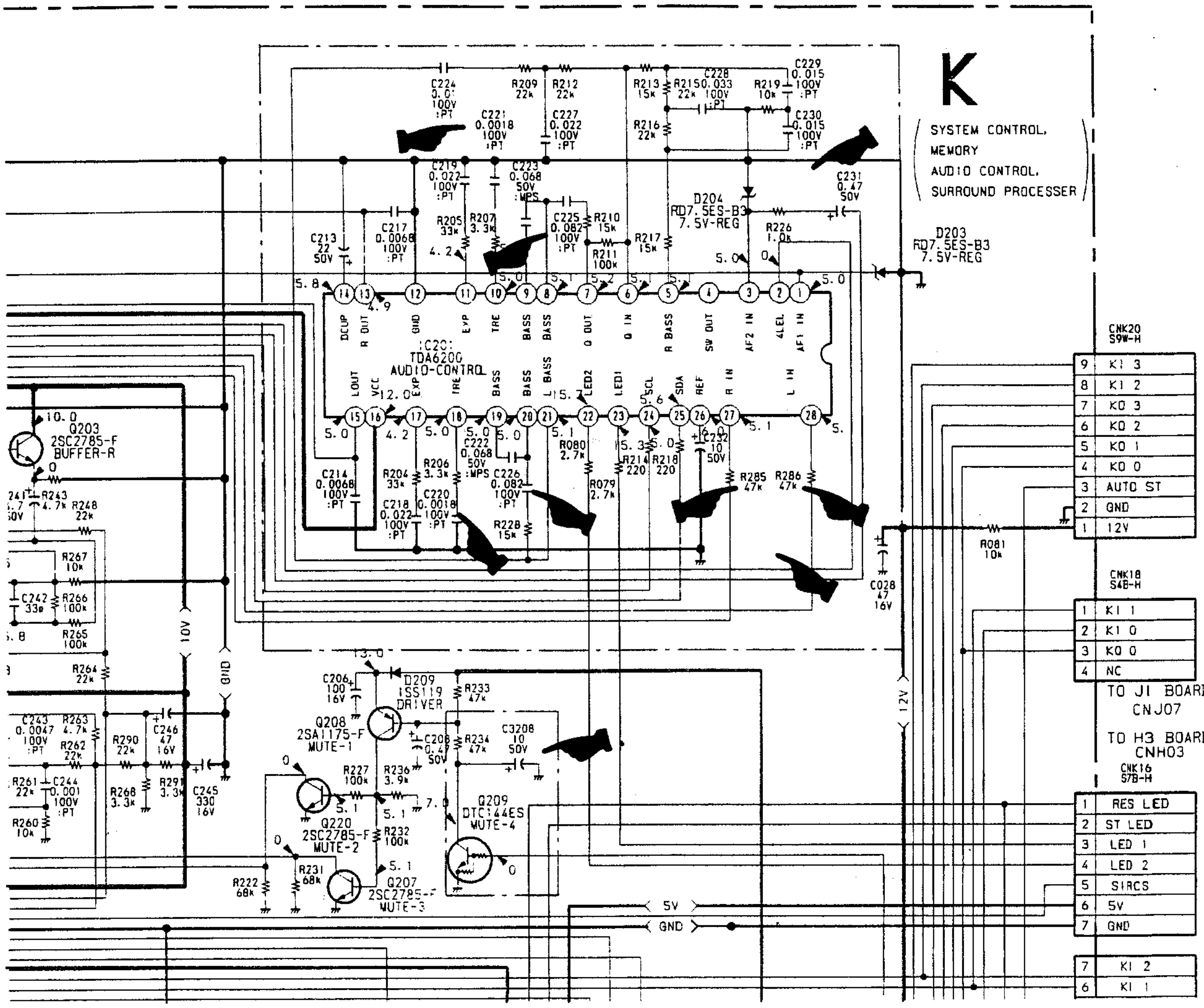
K board : page 31



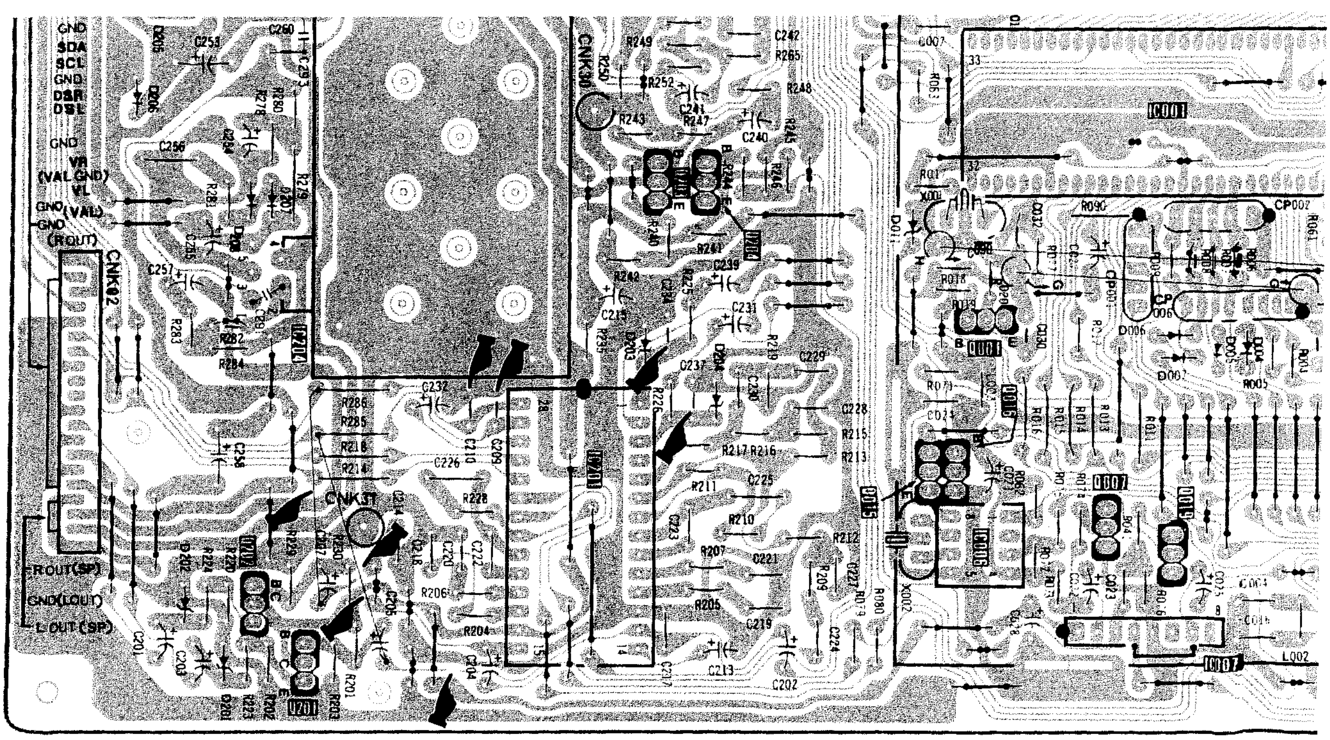
K Board : page 33



K Board : page 32



K Board : page 33



A | J1

SECTION 7 ELECTRICAL PARTS LIST

A Board : page 54, 55

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNA01	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
CNA02	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
CNA03	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	
CNA04	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	
CNAQ38	*1-564-506-11	CONNECTOR, BOARD TO BOARD 3P	

<CERAMIC TRAP>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CT01	1-409-332-00	CERAMIC TRAP (4.5MHZ)	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D02	8-719-000-06	DIODE MC921	
D05	8-719-100-35	DIODE RD5.6E-B2	
D06	8-719-911-19	DIODE 1SS119	
DR98	8-719-911-19	DIODE 1SS119	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R92	1-249-421-11	CARBON	2.2K	5%	1/4W	
R93	1-249-433-11	CARBON	22K	5%	1/4W	
R94	1-249-425-11	CARBON	4.7K	5%	1/4W	
R96	1-249-433-11	CARBON	22K	5%	1/4W	
R98	1-249-441-11	CARBON	100K	5%	1/4W	

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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1421	1-124-963-11	ELECT	33MF	20%	16V	
C1425	1-124-902-00	ELECT	0.47MF	20%	50V	
C1426	1-124-902-00	ELECT	0.47MF	20%	50V	
C1427	1-101-003-00	CERAMIC	0.0047MF		50V	
C1428	1-101-003-00	CERAMIC	0.0047MF		50V	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1413	1-247-895-00	CARBON	470K	5%	1/4W	
R1414	1-249-437-11	CARBON	47K	5%	1/4W	
R1415	1-249-434-11	CARBON	27K	5%	1/4W	
R1416	1-249-434-11	CARBON	27K	5%	1/4W	
R1417	1-249-404-00	CARBON	82	5%	1/4W	
R1418	1-247-738-11	CARBON	82	5%	1/2W	F
R1419	1-249-417-11	CARBON	1K	5%	1/4W	

K Board : page 66—68

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C215	1-124-119-00	ELECT	330MF	20%	16V	
C217	1-106-363-00	MYLAR	0.0068MF	10%	100V	
C218	1-106-375-12	MYLAR	0.022MF	10%	100V	
C219	1-106-375-12	MYLAR	0.022MF	10%	100V	
☛ C220	1-106-349-00	MYLAR	0.0018MF	10%	100V	
C221	1-106-349-00	MYLAR	0.0018MF	10%	100V	
C222	1-136-163-00	FILM	0.068MF	5%	50V	
C223	1-136-163-00	FILM	0.068MF	5%	50V	
☛ C224	1-106-367-00	MYLAR	0.01MF	10%	100V	
☛ C225	1-106-218-00	FILM	0.082MF	5%	100V	
☛ C226	1-106-218-00	FILM	0.082MF	5%	100V	
C227	1-106-375-12	MYLAR	0.022MF	10%	100V	
C228	1-106-379-12	MYLAR	0.033MF	10%	100V	
C229	1-106-371-00	MYLAR	0.015MF	10%	100V	
C230	1-106-371-00	MYLAR	0.015MF	10%	100V	
C231	1-124-902-00	ELECT	0.47MF	20%	50V	
C232	1-123-875-11	ELECT	10MF	20%	50V	
C239	1-124-902-00	ELECT	0.47MF	20%	50V	
C240	1-124-927-11	ELECT	4.7MF	20%	50V	
C241	1-124-927-11	ELECT	4.7MF	20%	50V	
C242	1-102-963-00	CERAMIC	33PF	5%	50V	
C243	1-106-359-00	MYLAR	0.0047MF	10%	100V	
C244	1-106-343-00	MYLAR	0.001MF	10%	100V	
C245	1-124-119-00	ELECT	330MF	20%	16V	
C246	1-124-477-11	ELECT	47MF	20%	16V	
C247	1-102-963-00	CERAMIC	33PF	5%	50V	
C248	1-102-963-00	CERAMIC	33PF	5%	50V	
☛ C249	1-124-910-11	ELECT	47MF	20%	50V	
C250	1-124-463-00	ELECT	0.1MF	20%	50V	
C251	1-136-169-00	FILM	0.22MF	5%	50V	
☛ C252	1-124-927-11	ELECT	4.7MF	20%	50V	
C253	1-124-607-11	ELECT	2200MF	20%	50V	
☛ C254	1-124-910-11	ELECT	47MF	20%	50V	
C255	1-124-463-00	ELECT	0.1MF	20%	50V	
C256	1-136-169-00	FILM	0.22MF	5%	50V	
☛ C257	1-124-927-11	ELECT	4.7MF	20%	50V	
C258	1-124-607-11	ELECT	2200MF	20%	50V	
☛ C259	1-136-163-00	FILM	0.068MF	5%	50V	
☛ C260	1-136-163-00	FILM	0.068MF	5%	50V	
C290	1-101-112-00	CERAMIC	330PF	10%	50V	
C291	1-101-112-00	CERAMIC	330PF	10%	50V	
☛ C292	1-130-476-00	MYLAR	0.0027MF	10%	50V	
☛ C293	1-130-476-00	MYLAR	0.0027MF	10%	50V	
☛ C3208	1-123-875-11	ELECT	10MF	20%	50V	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R224	1-249-413-11	CARBON	470	5%	1/4W	
R225	1-249-437-11	CARBON	47K	5%	1/4W	
R226	1-249-437-11	CARBON	47K	5%	1/4W	
R227	1-249-441-11	CARBON	100K	5%	1/4W	
R228	1-249-431-11	CARBON	15K	5%	1/4W	
R229	1-249-441-11	CARBON	100K	5%	1/4W	
R269	1-249-433-11	CARBON	22K	5%	1/4W	
R270	1-249-437-11	CARBON	47K	5%	1/4W	
☛ R271	1-249-429-11	CARBON	10K	5%	1/4W	
R272	1-249-433-11	CARBON	22K	5%	1/4W	
☛ R273	1-247-725-11	CARBON	10K	5%	1/4W	
R274	1-249-381-11	CARBON	1	5%	1/4W	F
☛ R276	1-249-428-11	CARBON	8.2K	5%	1/4W	
☛ R277	1-247-895-00	CARBON	470K	5%	1/4W	
☛ R278	1-249-429-11	CARBON	10K	5%	1/4W	
☛ R279	1-247-725-11	CARBON	10K	5%	1/4W	
R280	1-249-433-11	CARBON	22K	5%	1/4W	
R281	1-249-381-11	CARBON	1	5%	1/4W	
☛ R283	1-249-428-11	CARBON	8.2K	5%	1/4W	
☛ R284	1-247-895-00	CARBON	470K	5%	1/4W	
☛ R285	1-249-465-11	CARBON	47K	5%	1/4W	
☛ R286	1-249-465-11	CARBON	47K	5%	1/4W	
R288	1-249-423-11	CARBON	3.3K	5%	1/4W	
R290	1-249-433-11	CARBON	22K	5%	1/4W	
R291	1-249-423-11	CARBON	3.3K	5%	1/4W	
R292	1-215-899-11	METAL OXIDE	15K	5%	2W	F